The Mining Journal

FORMING A COMPLETE RECORD OF THE PROCEEDINGS OF ALL PUBLIC COMPANIES.

No. 645 .--- Vol. XVIII.

Deted June 22, 1841.

THE PATENT SAFETY FUSE,
FOR BLASTING ROCKS IN MINES, QUARRIES, AND FOR SUBMARINE
OPERATIONS.—This article affords the SAFET, CHEAPES, and note EXPEDITIOUS MODE of effecting this very hazardous operation. From many testimonies to its
menliness with which the manufacturers have been favoured from every part of the kingdom, they select the following letter, recently received from John Taylor, Esq., F.R.S.,
&c.,—"I arm very glad to hear that my recommendations have been of any service to
you; they have been given from a thorough conviction of the great usefulness of the
Safety Flue; and I am quite willing that you should employ my name as evidence of this,"
Manufactured and sold by the Farentees, BICKFORD, SMITH, and DAVEY, Conberne, Cornwall.

SSAYING AND ANALYSIS.—Mr. MITCHELL begs to inform the MANAGERS, &c., of MINES, SMELTING-WORKS, and MANUFAC-IES, that he still continues to CONDUCT ASSAYS and ANALYSES of all PRO-77S, metallurgical and manufacturing, at his LABGRATORY.

23, Hawkey-Road, Renyther Town, LONDON, thich address communications are to be forwarded.—Instruction in all branches of

LONDON, SATURDAY, JANUARY 1, 1848.

PRICE 6D.

TO RAILWAY ENGINEERS, CONTRACTORS, AND OTHERS.—The ADVERTISER having obtained her Majesty's Letters Patent for an IRON TRUSS BRIDGE, peculiarly adapted, from its great strength and economy, for RAILBOADS, is ready to TREAT with such companies, and other persons, as may feel disposed to adopt it. This bridge has been put up in the United States, on the New York and Harlem railroad—it being one of 70 feet span, and weighing only 13 tons; and is highly approved of by the directors—in consequence of which several other companies are giving fact orders for its erection.

A model can be seen, and further particulars given, either personally or by letter, on application to Mr. S. Moulton, care of the Editor of the Mining Journal, 26, Fleet-street. CLATE AND COPPER.—CAPITALISTS or COMPANIES willing to TREAT for the WORKING of a QUARRY of SUPERIOR SLATE, or a COPPER MINE of much promise, may obtain particulars by addressing Mr. J. Reeve Randall's Farm, Leatherhead, Surrey. At Nent Head necessary

At Hadgill Burn Receiving House

At Low Byer Receiving House—No. 1

2

3 TO RAILWAY CONTRACTORS.—TO BE DISPOSED Total 1219 Samples of the ores will be forwarded to any parties wishing to purchase, who may not point agents to examine them, on application to Mr. Paull, Alston, Cumberland. Renders for the purchase of the above parcels of ore, separately, will be received by Mr. sy, at the Low Byer Inn, Alston, up to Twelve o'clock on Thuraday, the 13th day of auary, 1848; and conditions of sale may be had on application to Mr. Grey, at the senwich Hospital Office, Dilston, Newcastle-on-Tyne. CALEDONIAN RAILWAY—LOANS ON DEBENTURES ALEJONIAN KAILWAY — LOANS ON DEBENTURES.

The CALEDONIAN RAILWAY COMPANY are prepared to RECEIVE TENDERS OF LOANS ON DEBENTURES, in sums of not less than 2500, for three or five years—bearing interest at the rate of 5 per cent. per annum, payable half-yearly, in Edinburgh, Glasgow, London, Liverpool, Manchester, or Bristol.

Tenders to be addressed to this office. Parties may also communicate personally with Messrs. Foster and Braithwaite, 66, Old Broad-street, London.

By order of the directors, D. RANKINE, Treasurer.

Caledonian Railway Office, 122, Princes-street, Edinburgh, March 26, 1847. TO CAPITALISTS, AND THOSE CONNECTED WITH SMELTING AND MINING OPERATIONS.—A GENTLEMAN, who has secured a PATE Tor a NEW METHOD of SMELTING cortain METALLIC ORES, by which, at no more than the usual cost, they are reduced, and one of the great staple chemicals of the country is left as a product over and above, wishes to obtain an ADVANCE of about ONE THOUSAND POUNDS, or accommodation to that extent, for a few months, in exchange for a share of the patent, with other collateral securities.—Apply to Market and the patent of the patent, with other collateral securities.—Apply to Market and the patent of the patent, with other collateral securities.—Apply to Market and patent of the patent, with other collateral securities.—Apply to Market and patent of the patent, with other collateral securities.—Apply to Market and patent of the pat ALUABLE PUMPING AND WINDING ENGINES FOR SALE.—TO BE SOLD, BY PRIVATE CONTRACT, at WHEAL VOR MINE, a the parish of BREAGE, CORNWALL—

1 80-Inch DRAUGHT ENGINE, it-feet stroke in cylinder, and 8 feet in shaft, main beam and caps, top nozzle, spring piston and rod—all new this year; with four boilers, of 12 tons each, in excellent repair.

1 80-Inch DITTO, 10 feet stroke in cylinder, 74 feet in shaft, cylinder, piston, bottom and cover, nearly new, with two boilers, of 12 tons each, all lately thoroughly repaired.

1 90-Inch DITTO, 9 feet stroke in cylinder, and 7 feet in shaft, without boilers, of 10 tons each, all lately thoroughly repaired.

1 20-Inch WINDING ENGINE, 5 feet stroke, with two boilers, of 4 and 6 tons, and vertical cage, all in complete repair—the boilers and some other parts nearly new.

1 18-Inch DITTO, 4 ft. stroke, with one boiler, of 5 tons, and horizontal cage, complete. Several TONS of straight and turned STEAM-PIES.

3 12-head CAST-HRON STAMPS AXLES, with bearings, oak frames, &c., complete. A powerful WEIGHING MACHINE, nearly new, comprising every requisite. An immense number of PUMPS, matching-pieces and windowes, 12 to 17-Inch bore, with working barrels, doorpieces, H-pieces, case, with stuffing-boxes and glands to match, from 11 to 19 inches bore, and plunger-poles, from 12 to 19 diameter. Faggotted tod and cap plates, 6, 7, and 8 inches wide, staples and glands, cyerunners, caps, saddles, troughs and gudgeons for balance and other bobs.

Application to be made to Capt. R. Blight, jun., on the mine.

Dated Nov. 29, 1847.

N.B.—The above are of easy transit to Hayle wharfs, and from thence on ship-board, ALUABLE PUMPING AND WINDING ENGINES FOR AILWAY ACCIDENTS.—The PRACTICABILITY of our "MEANS OF COMMUNICATION BETWEEN THE GUARDS (or passengers) and ENGINE-DRIVER," as well as our ELECTRIC TELEGRAPH, and arrangement; may be seen by applying to BRETT & LITTLE, Furnival's Inn, London. WILSON & FRASER, 2, WELLINGTON-BUILDINGS, LIVERPOOL, and 13, EXCHANGE-PLACE, GLASGOW, have always ON SALE PIG-IRON, BAR-IRON, RAILWAY CHAIRS, and RAILWAY BARS. FLEXIBLE HOSE-PIPES FOR LOCOMOTIVE ENGINES, MINING OFFICES, No. 1, ST. MICHAEL'S - ALLEY, CORNHILL, LONDON.—FOR SALE, ONE (99th) SHARE in WHEAL SETON; ONE (128th) in EAST ROSE; ONE (112th) in WHEAL MARGARET; ONE (196th) in TREVISKEY and BARRIER; and TWO (1024th) in DEVON GREAT CONSOLS; also several other shares in mines, paying from 15 to 20 per cent. per annum.—For price and particulars, apply to Messrs. Watson and Cuell, as above.

N.B.—Also FOR SALE, SHARES in the Equity and Law Life Assurance, National Reversionary Investment Company, &c. FLEXIBLE HOSE-PIPES FOR LOUOMOTIVE ENGINES,
RAILWAY CRANES, FIRE-ENGINES, GAS, &c.
PATENT VULCANISED INDIA-RUBBER HOSE-PIPES AND TUBING
OF EVERY DESCRIPTION.

These pipes are made to stand hot-water without injury—are very superior to leather sipes, or the common India-rubber pipes; and, as they do not become hard or stiff in the owest temperatures, or require any application when out of use, are particularly well dapted for fire-engines.
FLEXIBLE TUBING, of every description, for gas, chemical purposes, &c.
VULCANISED INDIA-RUBBER WASHERS, all sizes, forsteam and hot-water joints, &c.—Sole manufacturer,
JAMES LYNE HANCOCK, MR. R. TREDINNICK, THREE KING'S COURT LOMBARD-STREET, LONDON,
Continues to DEAL in every description of MINING, RAILWAY, BANKING, INSURANCE, CANAL, and OTHER SHARES.—Statistical information afforded gratuitously, upon personal application.—MONEY ADVANCED upon the above securities. c.—Sole manufacturer, Goswell Mews, Goswell-road, London. MPORTANT TO RAILWAY AND STEAM NAVIGATION COMPANIES, MANUFACTURERS, AND ENGINEERS.
W. BROTHERTON AND CO.'S JAMES LANE, MINING SHARE DEALER, 15, OLD BROAD-STREET, LONDON. N.B.—The above are of easy transit to Hayle wharfs, and from thence on ship-board W. BROTHERTON AND CO.'S

PATENT LUBRICATING FLUID (or Animal Oil) FOR ALL DESCRIPTIONS

W. B. & CO. have the pleasure to state, that the above article is extensively used in her Majesty's Steam Navy, and by several of the principal Steam Navigation and Railway Companies, and is pronounced by them, and by the first practical engineers of the day, to be far better adapted for the purposes of lubrication than any other article hitherto used for such purposes. The Patent Lubricating Fluid is equally applicable for the most intricate and fine pieces of machinery, as for the heaviest bearings of the steam-engine. It is cheaper, much more economical, and cleaner than oils at present in use; is free from smell, and calculated to effect a vast saving in the expenditure of working steam powers. Further particulars can be had, and testimonials seen, by application to the manufacturers,

W. BROTHERTON & CO., Hungerford Whart, Strand, London. N.B.—The above article will burn in lamps, and give a light equal to the best sperm oil. BRITISH MINING OFFICES, No. 12, HAYMARKET,
And No. 41, MOORGATE-STREET, LONDON,
And No. 4, STAMP-O-PICE BUILDINGS, MANCHESTER.
At either of which places PROSPECTUSES and SHARES in the various SLVER-LEAD
and COPPER MINES connected with these offices, may be obtained.
T. H. TAUNTON, London.
W. SHEARMAN, Manchester. OR SALE, BY PRIVATE CONTRACT—A single-acting PUMPING-ENGINE—cylinder 30-inch diameter, 9-feet stroke, equal beam, with ton boiler, cisterns, spring beam, and first set of rod-shafts attached, being the engine (Wheal St. Cieer.—For particulars, apply to Capt. Osborne, Liskeard; Mr. West, enger, St. Blazey; or Mr. Rendle, the purser, 13, Octagon, Plymouth. AXEY MINES, ISLE OF MAN .- TO BE SOLD, BY PUBLIC AUCTION, by order of the Court of Chancery, at the instance of the Receiver of the assets of the Isle of Man Joint-Stock Banking Company, on Monday, the 31st of January 1848, at Twelve o'clock noon, in the Wellington Hall. Douglas, THREE SHARES, and FOUR-SEVENTHS of a SHARE, in the LAXEY MINES, carried on in the parish of Lonan, in this island. TO MINE AGENTS, MINE SURVEYORS, &c.—
MATHEMATICAL, PHILOSOPHICAL, AND OPTICAL INSTRUMENT MAKER.

S.T. DAY. CORNWALL.

Begs to call the attention of MINE AGENTS and SURVEYORS to his MINER'S THEODOLITE, and other IMPROVED INSTRUMENTS, adapted to MINE SURVEYING; and to assure them, that, from many years' constant application of his energies in one of the most active mining districts to this particular branch of mathematical instrument making, he fatters himself he is able to furnish instruments, equal in point of accuracy and workmanship, and superior as regards adaptation to the wants of the miner, to those supplied by almost any other house. Shakes, and FOUR-Selvenths of a Shake, in the LAXEY MINES, carried on the parish of Lonan, in this island.

These mines, which are held under lease from the Government, including the whole parish of Lonan, in this island.

These mines, which are held under lease from the Government, including the whole parish of Lonan, are well known to produce the richest cre in this island—the property in which is divided into 20 shares.

A large sum of money has been expended in improvements, and in the erection of new and substantial machinery, which are nearly completed, and by which the mine will be placed in a most efficient working state—superior, in every respect, to what it has ever previously been in. The average raisings of ore for the last 12 months have been 50 tons of lead, and 200 tons of black-jack, por month, which is, at least, one-third more than has been raised within any 19 months previous. The stock in hand is valued at upwards of £4000, to a proportionate share whereof the purchasers of the above shares will be entitled.—The mine can be seen upon application to Capt. Rowe, the manager, at the mines, who will give such information as may be required; and further particulars may be had from the fixeelver.

SENHOUSE WILSON, Advocate, Douglas. TO ENGINEERS, RAILWAY AND STEAM-AND THE OWNERS OF STEAM-ENGINES IN GENERAL. W. & C. MATHER beg to call the attention of the above parties to their PATENT ELASTIC METALLIC PISTON. From the great satisfaction it has already given, they can, with confidence, recommend it. The following are some of its excellent properties:—

1. The great, equable, and mild elasticity: its being perfectly cylindrical and self-adjusting—thereby enabling it to yield, with the least possible friction, to any inaccuracies of the cylinder, whether oval or taper.

2. Its extreme simplicity and lightness—the packing consisting of ONLY TWO PIECES OF METAL, having vertical and horizontal elasticity in due and proper proportion, independent of each other—the horizontal elasticity being also independent of SCERWING DOWN THE JUNE BING OR COVER.

3. It takes the least possible space; and is, therefore, well adapted for air and water pumps. MONEY.—MESSRS. KILLICK & CO. (late Winstanley, MONE 1.—ALESSES. RILLIUK & CO. (late WINSTANLEY, make IMMEDIATE ADVANCES, to any amount, on the deposit of English and Foreign Railway Shares, Scrip, and Debentures, upon exceedingly advantageous terms: they also BUY and SELL every description of STOCK and MINING SHARES, at much less commission than usually charged.

6, Bank Chambers, opposite the Bank of England. EWITT'S REFINED IRON, OR METAL.
(For a description of the process, and the claim of the patentee, see the Min

Journal of December 11, 1847). G. Bank Chambers, opposite the Bank of England.

CALLINGTON MINES COMPANY.—At a Quarterly General Meeting of the shareholders in this company, held at the offices, 44, Finsburg-square, on Wednesday, the 22d inst.,

EICHARD HODGSON, Esq., in the chair.

It was moved, seconded, and resolved unanimously, that the reports and accounts, new submitted, be received, adopted, and entered in the cost and transfer book.

It was also moved, seconded, and resolved unanimously, that the most unqualified thanks are due, and are hereby presented, to the chairman, directors, and P. N. Johnson, Esq., for their able and successful management of these mines, and that an especial voite of confidence in the directors is increby intended to be expressed. It was further moved, seconded, and unanimously resolved, that a vote of thanks be passed to Captains Phillips and Barratt, for their attention and industry in conducting the operations of these mines.

44, Finsbury-square, Dec. 22, 1847. pumps.

The above patent was unsuccessfully opposed by Mr. Goodfellow, the patentee of a piston, having three angular rings, of a bevil form.

The Solicitor-General conceived that there was not the slightest similarity between them, as may be seen from the sabjoined letter from Mr. Carpmael, through whom the patent was taken.

W. and C. M. can refer to upwards of 100, made since the date of the patent (April, 1846), each of which is giving entire satisfaction. They beg to call attention to the fact, that, in a number of cases, they have replaced those made of three annuar rings of the bevil form, a description of which appeared in the Mining Journal of Saturday, October 2, 1847. Saving [LETTER REFERRED TO.]

Dear Sirs,—Mr. Solicitor-General took the hearing in your patent yesterday, at the Privy Council, and decided that the invention did not interfere; we are, therefore proceeding with the patent.

We are, your obedient servants,
Mesars. Mather.

The object of publishing the above letter, is to convince parties wishing to use W. and C. Mather's piston, that they have nothing to fear from the caution which accompanied the advertisement referred to, or the unfounded reports which are industriously circulated from the same quarter.

Locomotive and other pistons guaranteed for twelve months,
Salford Iron Works, Manchester, Sept., 1847. ONSOLIDATED COPPER MINES OF COBRE ASSO-CIATION.—Notice is hereby given, that a HALF-YEARLY GENERAL MEET-ING of the proprietors of this association will be HELD, in conformity with the Deed of Settlement, at the office of the company, 26, Austrafrars, on Monday, the 3d day of Ja-mary, 1848, at One o'clock precisely. On that day two directors (namely, Sir John Piric, Bart, and George Whitmore, Esq.), and one auditor (Alex. 1 ruce, Esq.), will go out of office by rotation, agreeably to the Deed of Settlement, but at a immediately re-eligible, and are candidates, for re-election. Saving Total saving, per ton of metal..... The yield of the metal, in puddling, does not exceed 21 cwts. to the ton, and is, on the PATENT KAMPTULICON (OR CAOUTCHOUC AND CORK) MATERIAL. and are candidates, for re-election.

It is necessary that parties intending to ofter themselves as candidates for the direction and auditorship, should leave notice of such their intention with the secretary, at the office of the company, 26, Austinfriars, at least 14 clear days before the day of election.

By order of the court of directors,

26, Austinfriars, Dec. 15, 1847.

WM. LECKIE, Secretary. ancer less.

of the metal may be had, and terms of licenses for the use of the patent
be known on application to R. J. Blewitt, Esq., M.P., Liantarnam Abbey,
Mommonthabire. SCALE OF PRICES WMBRAIN BAR-IRON AND BOILER-PLATE WORKS Wght. of Material per square yard, compared with wood.

Price per square yard. Purposes to which the Material may be applied. Sest BAR-IRON, RAILS, BOILDER-FLATES, SREETS, &c., MANUFACTURED ABOVE WORKS, from BLEWITTS PATENT METAL, and warranted equal, superior, to Staffordshire or Shropshire from. NISTER DALE IRON COMPANY.—Notice is hereby given, that an EXTRAORDINARY GENERAL MEETING of the proprietors of shares in this company will be HELD at the office of the company, 10, Old Jewry Chambers, in the city of London, on Wednesday, the 12th day of January next, at One o'clock precisely. Dec. 27, 1847.

F. W. EMERSON, Clerky Felt for Sheathing under Copper, and in destroying galvanic action between the Copper and Iron— also, for Telegraph, as a perfect non-conductor used by Electric Telegraph, Strand. QTRONG MIXING PIG-IRON.—The YSTALYFERA 28. IRON G MIXING PIG-IRON.—The YSTALYFERA IRON OCMPANY beg to solicit ORDERS for their ANTHRACITE PIG-IRON. This from mixes well with Scotch pig-imparting to it strength and elasticity, and receiving from it a portion of its softness and fluidity. No. 3 Pig is recommended for mixing with soft iron—Nos. 1 and 3, for machinery castings, requiring great soundness and strength. At this period, when east-iron it so much employed in the construction of bridges and other buildings, requiring all the strength and elasticity which the best mixture of metal will afford, it may be interesting to call attention to the characteristics of ANTHRACITE PIG-IRON, as arrowards on the property and capacity to resist impact, any "it greatly exceeds, in atength, in deflective powers, and capacity to resist impact, any iron at this time manufactured in the United Kingdom."

"It now only remains for me to mention a property peculiar to this iron, which was ROYAL SANTIAGO MINING COMPANY.—The directors hereby give Notice, that the HALF-YEARLY GENERAL MEETING of the shareholders will be HELD at the office of the company on Wednesday, the 5th January next, at One o'clock precisely, when the directors will make their report.

38, Broad-street-buildings, Dec. 18, 1847. lacing under Carpets, and as a Floor Cloth for rs, Offices, Aisles of Churches, to deaden sound, prevent noxious effluvia from vaults beneath ee Passage to Lord Chamberlain's Office, House Cards T. JOHN DEL REY MINING COMPANY.—Notice is hereby given, that the ELEVENTH HALF-YEARLY DIVIDEND, being TEN SHILLINGS per share, on the shares in this company, will be PAID at this office on Thursday, the 20th January, 1848, and any succeeding day, between the hours of Ten and Four.—Forms for claiming the dividend may be obtained at the company's office, and must be left three clear days' for examination previous to payment.

8, Tokenhouse-yard, Dec. 12, 1847. for Railway Carriages, Buffers, Shields, &c., and to place between Rails and Sleepers, Joints of Iron Bridges, and to use, in all cases, where it is desir-able to destroy eibration, and obviate the effects of concussion—used by the South-Western Railway, &c ** In time manufactured in the United Kingdom."

'It now only remains for me to mention a property peculiar to this iron, which was seed at the time I made the trial experiments, four years ago, but which has been more by developed in those more recently made. The property referred to is one of great signification, or classicity, which communicates a tendency to the bar, in deflecting and saking, to resume its rectangular form. Bars that had obtained a permanent set of Ollas, when afterwards broken, presented but a slight deviation from a right line; and so case, did the curvature exceed one-fourth of a tenth."

It was also remarked, that most of the fractures, in hreaking, presented a soulcast. 9 lbs., or one-third the weight of oak. Lining for Floors of Carriages, Horse Boxes, and covering Walls of Riding-Houses, as at the Castle, PRELEIGH CONSOLIDATED MINING COMPANY. 17 lbs., or ditto 108. The directors hereby give Notice, that a MEETING of the sharcholders will be HELD at the office on Monday, the 3d of January next, at One o'clock precisely, when the accounts for three months, ending the 31st December, will be laid before them. 57, Old Broad-street, Dec. 10, 1847.

WM. NICHOLSON, Secretary. 3-4 27 lbs., or ditto forcia throughout, resembling the structure of unbardened steel."

Address THE YSTALYFERA IRON COMPANY,
Dated June 22, 1847.

Near NEATH, SOUTH WALES. 128. Mr. Ratsey, of Cowes, on the Ganymede an dola, of the Royal Victoria Yacht Club, &c. WHEAL CURTIS COPPER MINING COMPANY.
Notice is hereby given, that an ODDIN', by Company. 36 lbs., or ditto 16s. 6d. Lining Rooms and Floors of Lunatic Asylums, as as Bethlem Hospital, Northampton, &c. HOT-BLAST WITHOUT COAL, LABOUR, OR REPAIRS.

DIXON AND BUDD'S PATENTS.

Apply for particulars, or to inspect the process in operation on six blast-furnaces; to Dated June 22, 1847. For Lining Iron Men-of-War, to ameliorate the effects of Cannon Shot, by retain 3 Splinters; and by the Holes simultaneously closing, the Water is kept out, as proceed arsenal, Woolsich.

ing the Splinters; and by the Holes simultaneously closing, the water is selected, we have an extended, Woolstoin, N.B.—Felt for the Inner Soles of Boots and Shoes, at 3s. per dozen pairs. Hoof Protectors, lined with Gutta Percha for diseased feet of horses, 2s. 6d. per pair. Elastic Patty, for preventing Cabin Windows, Skylights, &c., being broken by concussion, hall stoms, &c.* Life Boats of Iron Kamptulicon, 30s. per foot.

FACTORY, GREENWICH-ROAD, where all orders are requested to be sent. * From its lightness it is not more expensive than common putty.

THE PATENT OFFICE AND DESIGNS REGISTRY,

No. 210, STRAND, LONDON.

INVENTORS will receive (gratis), on application, the OFFICIAL CIRCULAR OF

INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and

DESIGNS, with Reduced Scale of Fees.

INFORMATION, detailing the eligible course for PROTECTION of INVENTIONS and DESIGNS, with Reduced Scale of Fees.

Messrs. F. W. CAMPIN and CO. offer their services, and the benefit of many years experience, in SECURING PATENTS and REGISTRATIONS OF DESIGNS, with due regard to VALIDITY, economy, and dispatch—assisted by selemific men of repute.

Also, in MECHANICAL and ENGINEERING DRAWINGS, whether connected with Patenus, Railways, or otherwise, by a staff of first-rate draftsmen.

Application personally, or by letter, to F. W. Campin and Co., No. 210, Strand (corporer of Easex-street).

OF, BY PRIVATE CONTRACT, FIFTY TONS of FLAT. BOTTOMED T RAIL, out 26 lbs. to the yard; and a QUANTITY of SUNDRY MATERIALS, suitable for mile purposes; also, about ONE HUNDRED and FIFTY EARTH WAGGONS, 4-feet inch gauge; 2-feet 6-inch wheels (a few of them 2-feet only)—holding, on an average, yards. The above are now lying in the Gloucester Station yard.—For further partiars, apply to W. F. Mansell, news agent, Gloucester.

WHEAL CURTIS COPPER MINING COMPAN Notice is hereby given, that an ORDINARY GENERAL MEETING; shareholders of this company will TAKE PLACE at the Guildhall Coffee-house, street, Cheapside, London, on Wednesday, the 5th day of January, 1848, at Two o precisely, to receive from the board of directors a statement of the accounts and aff the company, and for the election of directors, in the room of the present director in conformity with the Deed of Settlement, go out of office, but are re-eligible, an now offer themselves as candidates, and on the affairs of the company amerally, other shareholders intending to offer themselves as candidates for the office of direvill have the goodness to give notice thereof, without delay, to the sarriary, at the pany's offices, as below. The books of the company, and the balance-sheet, may spected by the shareholders, at the said offices, on any day prior to the said meeting tween the hours of Eleven and Three o'clock.

By order of the board,

GEO. A. JACOBS, Secretic veen the hours of Eleven and Three o'clock. By order of the board,
GEO. A. JACOBS, S
Basinghall Chambers, Basinghall-street, London, Dec. 23, 1847.

DEAKE'S TERRO-METALLIC TILES, PIPES, &c., PEARLY STRIKE - METALLITE LIES, THE S. Co., to least ONE HUNDRED SORTS AND SIZES.—In addition to the numer poses to which it is applied already, this MARSHIAL may be MOULDED use VARIETY OF ARTICLES, required, either the none or alroad, by the Nebley Gentry, Architects, Civil Engineers, and Endlers; also by Owners and Scapping of the Markey Strike Str

IR JAMES MURRAY'S FLUID MAGNESIA.—Prepared under the immediate care of the inventor, and established for apwards of 30 years.

—This elegant preparation is recommended in all cases of bile, actidities, indigestion, gont, and gravel, as the most seik, easy, and effectual form in which magnesis many—and, indeed, the only one in which it ought—to be exhibited, possessing all the properties of the
magnesis now in general use, without being liable, like it, to form dangerous concretions
in the bowels, it effectually cures measurems without injuring the costs of the stomach,
as soda, pofess, and their curbonates are known to do; it prevents the food of infants
starming sour; in all cases it acts as a pleasing aperient, and is peculiarly adapted to fehandes. It has long been known that the most serious consequences have frequently resulted from the use of sold magnesia, which has been proved by Mr. Brande and many
other eminent chemists, to form concretions in the bowels, endangering, and, in some
instances, destroying life—Sir HUMPHREY DAYY testified that this solution forms
soluble combinations with uric acid salts in cases of gout and gravel—thereby counteracting their injurious tendency, when other alkalies and even magnesia itself, had failed.

From Sir PHILIP CRAMPTON, Bart., Surgeon-General to the Army in Ireland:—

From Sir PHILIP CRAMPTON, Bart., Surgeon-General to the Army in Ireland:

"Dean Sin,...-There can be no doubt that magnesia may be administered more safely in
the form of a concentrated solution than in substance; for this, and many other reasons
I am of opinion that the fluid magnesia is a cryy valuable addition to our Materia Medica.

PHILIP CRAMPTON."—Sir J. Clarke, Sir A. Cooper, Dr. Bright, and Messrs. Guthrie
and Herbert Mayo, of London, strongly recommend Murray's Fluid Magnesia, as bein
infinitely more safe and convenient than the solid, and free from the danger attending the
constant use of needs or needs.

Infinitely more safe and convenient than the solid, and free from the danger attending the constant use of soda or polesca.

Letter from J Marray, Esq., Lecturer on Chemistry, F.S.A., P.L.S.:—

"DKAR Sir JAMES,—Many years have elapsed since you first showed me, in your liboratories, your super-carbonate, or soluble magnesia, and demonstrated experimentally the semarkable quantity of pure magnesia held in transparent solution. It was then new to me, as it was to the chemical world, and I speak advisedly, as a practical chemist. I believe its medical value cannot be too highly estimated; and I am satisfied that the public is under an infinite debt of gratitude to you for those invaluable researches, which have been the means of its introduction. Not to mention its more obvious healing virtues. I believe it to be almost, if not attogether, a specific for lithic acid concrotions, when used in the pure condensed solution invented by you.

"To Sir James Murray, Dublin. Portland-place, Hull, Aug. 30, 1839."

The following testimonial of the celebrated "Distin Family," who are well known to her Majesty and the nobility of England proves the great value of Sir James Murray's fluid magnesia, and is very encouraging for delicate persons going to sea:—

"Sig.—'Laving arrived from Glagow, per the steam-ship Jupiter, in this stormy season, without the slightest sea sickness, we feel bound to attribute this exemption to the most agreeable efferrescent draughts of your solution of magnesia and acidulated syrup, which were kindly furnished to us by that attentive officer, Capt. Ellis. Upon all former occasions we were martyrs to sea sickness, and we think it a great blessing that travellers may now enjoy such health and comfort at sea, as we derived from the use of this delight-suitchia."

"To Sir J. Murray.

Tuthill's Hotel, Dawson-street, Dublin, Feb. 19, 1839."

"To Sir J. Murray.

"To Daw Sir.— I consider the fluid unaccessin to be a revy aduable and convenient remedy

Tuthill's Hotel, Dawson-street, Dublin, Feb. 19, 1830.
From Dr. KENNEDY, Master of the Lying-in Hospital, Dublin:

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CAUTION.—In order to avoid the danger of concretions and sediments, which resulfron the use of over-saturated and unchemical compounds, made by non-medical persons, the public will please to observe, that Sir James Murray's pure fluid magnesia is prepared of that proportion of strength which is conformable to the laws of chemical equivalents, and which has been proved, in hospital and private practice, during the last 30 years, to be the best adapted for the human stomach, and the most suitable for the treat ment of formales and children.

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19. Berners-street, Oxford-street, London. Published by the authors; sold by Strange, 21. Parternoster-row; Hannay, 63, and Sanger, 150, Oxford-street; Starie, 23, Titchbornestreet, Haymarket; and Govion 146. Leadenhall-street.

Part the First treats of the anatomy and physiology of the reproductive organs, and is illustrated by six coloured engravings.—Part the Score treats of the consequences resulting from excessive indulgence, and their lamentable effects on the system, producing mental and bodily weakness, nervous excitement, and generative incapacity; it is illustrated by three explanatory engravings.—Part the Third treats of the "seaser resulting from infection, either in the primary or secondary form, and contains explicit directions for their treatment. The consequences of neglect, and of the abuse, of the rections for their treatment. This section is illustrated by 17 coloured engravings.—Part the Fourth treats of Perry's Preventative Lotion, by the use of which the dangers of infection are obvisted. Its action is simple but sure; it combines with the tirus chaiderniton of marriage and its duties. The causes of unproductive unions are also considered, and the whole subject critically and philosophically inquired into.

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ON LOCOMOTIVE BOILERS boilers consist of three portion

the cylinder, containing the

tubes, the fire-box, and the smoke-box; of which the cylinder, smoke-box, and external fire-box are always of iron, but the internal fire-box is generally made of copper, though sometimes also it is made of iron. The tubes are sometimes of a locomotive boiler which are subjected to the pressure of steam, should be Low Moor and Bowling plates of the beat quality; and the copper should be coarse grained, rather than rich or soft, and be perfectly free from irregularities of structure and lamination. The thickness of the plates composing the barrel of the boiler varies generally from five-six teenths to three-eighths of an inch, and the plates should run in the direction of the circumference, so that the fibres of the iron may be in the direction of the strain. The diameter of the boiler varies generally from five-six teenths to three-eighths of the brief commonly varies from 8 ft. to 3 ft. 6 in.; the diameter of the rivets should be from eleven-sixteenths to three-fourths of an inch, and the pitch of the rivets, or distance between their centres, should be from seventeen-eighths to two inches. The thickness of the plates composing the external fire-box is, in general, three-eighths of an inch, if the fire-box is circular, and from three-eighths to one-half inch, if the fire-box is square; and the thickness of the internal fire-box is, in most cases, seven-sixteenths, if copper, and from three-eighths to seven-sixteenths of an inch, if of iron. Circular internal fire-boxes, if made of iron, should be welded rather than rivetted, as the rivet heads are liable to be burnt away by the action of the fire; and when the fire-boxes are square, each side should consist of a single plate, turned over at the edges with a radius of 8 inches, for the introduction of the rivets. The space between the external and internal fire-boxes forms a water space, which must be stayed every 4h or 5 in., by means of copper or iron stay-bolts, screwed through the outer fire-box into the metal of the inner fire-box, and securely rivetted wi es, the fire-box, and the smoke-box; of which the cylinder, smoke-box, and external fire-box are always of iron, but the internal fire-box is generally made are almost as easily expanded when hammered cold upon a mandril, as the common wrought-iron ones are at a working heat. Spring-steel, rolled with a feather edge, to facilitate its conversion into ferrules, is supplied by some of the steel-makers of Sheffield, and it appears expedient to make use of steel thus prepared, when steel ferrules are employed. The roof of the internal fire-box; whether flat as in Stephenson's engines, or dome-shaped as in Bury's, requires to be stiffened with cross stay-bars, but the bars require to be stronger and more numerous when applied to a flat surface. The ends of these stay-bars rest above the vertical sides of the fire-box; and to the stay-bars thus extending across the crown, the crown is attached at intervals by means of stay-bolts. There are projecting bosses upon the stay-bars encircling the bolts at every point where a bolt goes through, but in the other parts they are kept clear of the fire-box crown, so as to permit the access of water to the iron; and, with the view of facilitating the ascent of the steam, the bottom of each stay-bar should be sharpened away in those parts where it does not touch the boiler. The internal and external fire-boxes are joined together by a 's shaped fron, and round the fire-door they are connected by means of a copper ring, 1½ in. thick, and 2 in. broad—the inner fire-box being dished sufficiently outwards at that point, and the outer fire-box sufficiently inwards, to enable a circle of rivets, three-fourths of an inch in diameter, passing through the copper ring and the two thicknesses of iron, to make a water-tight joint. To find the proper length of bar requisite for the formation of a hoop of any given diameter, and the butch has been to the keep the proper length of bar requisite for the formation of a hoop of any given diameter, and the butch has been to the keep the proper length of bar requisite for the formation of a hoop of any given diameter, and the two thicknesses of iron, to make a water-tight joint. To thind the proper length of bar requisite for the formation of a hoop of any given diameter, add the thickness of the bar to the required diameter, and the corresponding circumference in a table of circumferences of circles is the length of the bar. If the iron be bent edgeways the breadth of the bar must be added to the diameter, for it is the thickness of the bar measured radially that is to be taken into consideration. In the tires of railway wheels, which have a flange on one edge, it is necessary to add not only the thickness of the tire, but also two-thirds of the depth of the flange; generally, however, the tire bars are sent from the forge so curved that the plain edge of the tire is concave, and the flange edge convex, while the side, which is afterwards to be bent into contact with the cylindrical surface of the wheel, is a plane. In this case, the addition of the diameter of two-thirds of the depth of the flange is unnecessary, for the curving of the flange edge has the effect of increasing the real length of the ber. When the tire is thus curved, it is only necessary to add the thickness of the hoop to the diameter, and then to find the circumference from a table; or the same result will be obtained by multiplying the diameter thus increased by the thickness of the hoop by 3·1416.

The upper portion of the external fire-box is usually formed into a steam-chest, which is sometimes dome-shaped, sometimes semi-circular, and sometimes of a pyramidical form, and from this steam-chest the steam is conducted away by an internal pipe to the cylinders; but, in other cases, an independent

The upper portion of the external fire-box is usually formed into a steamchest, which is sometimes dome-shaped, sometimes semi-circular, and sometimes of a pyramidical form, and from this steam-chest the steam is conducted away by an internal pipe to the cylinders; but, in other cases, an independent steam-chest is set upon the barrel of the boiler, consisting of a plate-iron cylinder, 20 in. diameter, 2 ff. high, and three-eighths of an inch thick, with a dome-shaped top, and with the seam welded and the edge turned over to form a flange of attachment to the boiler. The pyramidical dome, of the form employed in Stephenson's locomotives, presents a considerable extent of flat surface to the pressure of the steam, and this flat surface requires to be very strongly stayed with angle irons and tension rods; whereas the semi-globular dome of the kind employed in Bury's engines requires no staying whatever. The man-hole, or entrance into the boiler, consists of a circular or oval aperture, of about 15 in. diameter, placed in Bury's locomotive at the apex of the dome, and in Stephenson's upon the front of the boiler, a few inches below the level of the rounded part; and the cover of the man-hole in Bury's engine contains the safety-valve seats. In whatever situation this man-hole is placed, the surfaces of the ring encircling the hole, and of the internal part of the door or cover, should be accurately fitted together by scraping or grinding, so that they need only the interposition of a little red lead to make them quite tight when screwed together. Lead or canvas joints, if of any considerable thickness, will not long withstand the action of high-pressure steam; and the whole of the joints about a locomotive should be such, that they require nothing more than a little paint or putty, or a ring of wire-gauze smeared with white or red lead, to make them perfectly tight. There must be a mud-hole opposite the edge of each water space, if the fire-box be square, to enable the boiler to be easily cleaned out, and these h

SOUTH DEVON ATMOSPHERIC RAILWAY .- On Friday four additional trains up and down, between Exeter and Teignmouth, commenced running by atmos-pheric power, and both express trains will be worked in a similar manner Several of the trains will be worked atmospherically to Newton in the present yeran of the tains will be worked atmospherically to kewton in the presence, and it is intended to remove locomotive engines from the line above two from the 1st January. The utmost confidence is placed in the atmost eric mode of traction; nothing can exceed its regularity.—Devon. Telegraph. phere mode of traction; nothing can exceed its regularity.—Deron. Telegraph.

VEGETABLE TALLOW.—A parcel of an article called vegetable tallow has eccently been imported into the port of Liverpool, by a vessel arrived from Shanghai, China, which was declared for the duty by the parties as tallow; but the revenue officers there considering the article to be spermacetti, detained it for the ad valorem duty of 25 per cent., chargeable on that substance. It appears that this is the first importation of this article into the port of Liverpool from the Chinese empire, although it is well-known at this port, in which it has frequently been brought, as vegetable tallow. There is an immense difference of duty between the two articles, tallow and spermacetti, and, as we believe, it has been customary to permit the delivery of such parcels as have been imported into the port of London under the tallow duty, it is most probable that, even without reference to a desire of encouraging the trade between this country and China, for the sake of uniformity, the same course will be pursued in regard to the present arrival.

Two BAD LEGS CURED BY HOLLOWAY'S OINTMENT AND PILLS, AFTER

Two BAD LEGS CURED BY HOLLOWAY'S OINTMENT AND PILLS, AFFER MORE THAN SEVEN YEARS' SUFFERING.—Mrs. Elizabeth Humphreys, of York-street, Hull, had been most painfully afflicted for upwards of seven years with ulcerated sores in both legs; her sufferings at times were dreadful—she had tried almost every remedy, and received the advice of several of the first surgeons in Yorkshire—yet all failed to effect a cure, until she used Holloway's invaluable ointment and pills, the astonishing powers of which soundly healed every wound. She is now in the enjoyment of the best of health, and enabled to walk about with ease and comfort.—Sold by all druggists, and at Professor Holloway's establishment, 244, Strand, London.

IRON, HARDWARE, AND METAL TRADES' PENSION SOCIETY.

In our columns of the 11th Nov. two advertisements appeared, relating to the above society, and to which it was our intention, ere this, to have directed the nore particular notice of our readers. The present moment appears to us to be peculiarly applicable, as, in taking a retrospective glance of the events of the "old" year, it is pleasing to hold out prospects of the "new." The benevolent course heretofore pursued by the promoters and advocates of the society is, we are happy to find, not only progressing with those prospects of success, which were augured in its early stages, but, judging from the past, with pleasing in-dications of growing prosperity; while it is gratifying to find, that the late elecion has added four additional recipients of its bounty, making nine in all, entitled to pensions of from 14 to 20 guineas per annum. As a satisfactory proof of the wisdom, as well as the benevolent, features which the society presents, we may advert to the alteration introduced into its constitution in January last, by which its benefits are rendered accessible to all deserving and necessitous members of the trades, whether subscribers or not. This is as it should be, and will, we feel assured, meet with the approbation of every liberal mind; while it must tend materially to aid the funds of the institution, and thus give them increased powers to follow on their praiseworthy course in doing good, and relieving the necessitous and distressed. The present moment—when the greatest pleasure and delight which can be afforded to those possessing the means, and which are derived from the labours of the recipients of this fund, and their fellow workmen—is one which, we feel assured, will be availed of by many, to contribute their mite in aid of the distresses of those to whom they are indebted; and, as evidence of the growth of kindly feeling and philanthropic charity displayed in the several branches of trade, to which this society directs its attention, we are happy to state, that the income of the society, derived from donations and annual subscriptions (which, in 1846, fell short of 325L,) for the current year, exceeds 1000l. This, we repeat, is as it should be, and is most gratifying to all parties concerned; while we may indulge in the hope, that the coming year will afford still higher encouragement to the benevolent promoters of this valuable institution, by the accession of many wealthy individuals to the ranks of its supporters, who derive large incomes from the iron, hardware, and metal trades. It was, we must admit, with some surprise, and a sorrowful feeling, if the expression may be employed, that, in looking over the list of subscribers, we found the absence of several highly-influential aid inspected names, and which we can only attribute to the objects of the society not having been submitted to them in that manner, or introduced through that channel, which would at once claim, while it well merits, their attention. In this noticing we may advert to the alteration introduced into its constitution in January last, channel, which would at once claim, while it well merits, their attention. In this noticing the society, we do so as one of its friends and advocates, inasmuch that, through the medium of our columns, weekly, the result of experiments with scientific research, the yield of the furnace, the cupelo, and the rolling-mills—the current prices of "iron, hardware, and metal," are rendered as the result of the labours of those for whose aid and benefit it has been formed; and hence we feel an interest in its welfare—while we are convinced the courtesy and attention of the hon. secretary, Thomas Hawkins, Esq., 67, Upper Thaines-street, will secure any further information which may be desired.

PREVENTION OF ACCIDENTS IN COAL MINES.

Last week a paper was read on the above subject, by Mr. Spence, at the Manchester Mechanics' Institution. After a few preparatory observations in eference to the calamitous results usually attendant on accidents in coal miness Mr. Spence observed, that many efforts had been made by those immediately onnected with the working of collieries to lessen the danger of explosions. It was true, also, that with a regular system of ventilation, thoroughly carried into practice, and by the adoption of all well-known protections, the danger had been practice, and by the adoption of all well-known protections, the danger nan osen very much lessened, even in those pits where the evolution of inflammable gas was so abundant, as to make an explosion a possible occurrence at any moment. When such regulations were adopted, immunity from accidents was a prominent feature in particular workings, but even the fact of that security being obtained was one of the elements of danger; for any one conversant with the generality of working men must know that safety in the midst of danger tended to make them regardless of the rules they ought to observe. It was, therefore, essential that some method should be adopted which should exclude the prudence of the working man from amongst the means of security. Mr. Spence then explained the cause of explosions in mines. The process of mining coals, he said, tended to sat at liberty varying, but abundant, quantities of two gases. These gases, probably pent up previously within the strata, were st at liberty when the strata were broken up, sometimes silently and imperceptably, and at others with considerable force and influence. These gases were termed the choke-damp, and fire-damp. The choke-damp was carbonic and gas, unin-flammable in Itself, and destroying combastion wherever it câme in contact with it. Being detrimental to human life, it was one of those things whilf rendered ventilation more requisite where it abounded. The fire-damp, which was a combination of hydrogen, so the explosions. The constituents of this gas were the same as those of the gas used for lighting the streets in minipulation of the control of the carbon structure. The control of the carbon structure of the gas to 10 parts of air being gas were the same as those of the gas used for lighting the street in minipulation of the carbon structure. The control of the carbon structure of the past to 10 parts of air being gas were demended by the weight of atmospherical air. Hence it ascended, and the ligheet parts of the mine were inconsequence the most light cont ery much lessened, even in those pits where the evolution of inflammable gas was so abundant, as to make an explosion a possible occurrence at any moment.

EARTH'S EARLY INHABITANTS.—It is strange that, in a thin bed of fine clay, occurring between two masses of sandstone, we should thus have convincing, but unexpected, evidence preserved concerning some of the earth's inhabitants at this early period. The ripple-mark, the worm track, the scratchings of a small crab on the sand, and even the impression of the raindrop, so distinct as to indicate the direction of the wind at the time of the shower, these, and the footprints of the bird and the reptile, are all stereotyped, and offer an evidence which no argument can gainsay, no prejudice resist, concerning the natural history of a very ancient period of the earth's history. But the waves that made that ripple-mark have long ceased to wash those shores; for ages has the surface then exposed been concealed under great thicknesses of strata; the worm and the crab have left no sould fragment to speak to their form or structure; the bird has left no bone that has yet been discovered; the fragments of the reptile are small, imperfect, and extremely rare. Still enough is known to determine the fact, and that fact is the more interesting and valuable from the very circumstances under which it is presented.—Ansted's Picturesque Sketches of Creation

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Cransactions of Scientific Bodies.

MEETINGS DURING THE ENSUING WEEK.		
MONDAY Entomological-17, Old Bond-street		
Pathological -21, Regent-street, Waterloo-place	8	P.M.
WEDNESDAYGeological-Somerset-house		
THURSDAY Royal-Somerset-house		
Antiquaries—Somerset-house		
Zoological-11, Hanover-square		
FRIDAY Botanical-20, Bedford-street, Covent-garden		
SATURDAY Asiatic-14, Grafton-street		
Westminster Medical 17, Saville-row	8	P.M.

On Mining, & the Practical Applications of Scological Science. PROF. ANSTED'S LECTURES, AT KING'S COLLEGE.

LECTURE XII.—THE PRACTICAL APPLICATION OF GEOLOGICAL SCIENCE TO MINING

THE FRACTICAL APPLICATION OF GEOLOGICAL SCIENCE TO MINING—

"HE ENGLISH AND WELSH COAL-FIELDS.

"HE Would be gathered (said Prof. ANSTED), from the preceding lectures, that the Newcastle coal-field was remarkable for the convenient thickness of its beds, which mostly ranged from 4 ft. to 7 ft.; the generally uniform nature and good quality of the coal itwilf; the immense quantities of gas which it poured out; and the great depths at which it was worked. All these peculiarities influenced, more or less, the modes in which the mines were there conducted; and he believed that, on the whole, no methods superior to Passing on from the Newcastle coal-field, they would have to consider, next, the me

thods of working in the other coal districts of England. These depended very much upon the thickness of the beds, which, in some instances, were extremely thin, and sometimes many times thicker than those of Newcastle; they depended, also, upon the nature of the thickness of the beds, which, in some instances, were extremely tunn, and sometimes many times thicker than those of Novecasite; they depended, also, upon the nature of the coal, and partly upon local prejudices and fancies. The common methods employed, however, were hardly founded upon special laws or circumstances; neither was there saything very peculiar in the coal tistelf which caused the adoption of those methods—so that they were, he might are, chiefly attributable to the fancies and whims of individuals. The coal districts of England, now to be described, might be divided into three groups, which would include all times times times the coal time of the coal districts of England, now to be described, might be divided into three groups, which would include all times times times the coal time to the coal districts of England; and the coal time to the c the coal, and partly upon local prejudices and fancies. The common methods employed, however, were hardly founded upon special laws or circumstances; neither was there

verted into "slack." There was, no doubt, great difficulty in working this coal; but, at the same time, it was equally true, that the methods of working were more irregular than they need be. [The lecturer exhibited a diagram, showing the ground plan of a mine in Staffordshire.]

From this it appeared, that the quantity of coal left in pillars was very small as compared with the quantity removed; but Professor Ansted remarked upon that apparent contradiction of his foregoing remarks, that a great deal of coal was left at the top and bottom of the galleries. The shaft being sunk, whatever plan might be adopted they in variably gut to the bottom of the coal first; a tolerably large gallery was then run along the floor, and sometimes air galleries of a smaller diameter were run parallel to it, and communicating with it by small openings, to convey the returning current. The coal was then mostly got without any plan, and the pillars were left almost entirely at the discretion of the sabordinate workmen. One reason why this neglect of system was, generally arose from the circumstance, that the beds were near the surface. If they had been deeper, it was probable that it would \$\(^2\) found necessary to lay out a plan, and to work more by each pair of pits. One great difficulty in the way of any improvement was, the way in which the men were paid for their work. The custom in the neighbourhood of Dudley and Birmingham was to underlet she coal to men little or nothing above the level of common workmen in point of intelligence. This man undertakes to get the coal, and engages his own workmen for that purpose, reletting it, in portions, perhaps to half-adogen others—thus there is little or no reference to a general plan of operations. These men are too often remarkable for their ignorance of general principles and disregard of everything but their immediate and pressing interests. Under such a system as this, it was not to be wondered at that the details varied in every mine.

The next coal-field he came to was that of S

on. There also the essens were so regular, that they differed very little in thickness for a great distance. But when they come to the coal-fields of the south of England, particularly those of the Forest of Desm and South Wales, there were frequently found remarkable irregularities, called "hories." When these horse occurred, the coal disappeared at once, but yet without any fault at all. These horses bad to be cut through, and after a time the coal reappeared. It was as though the best of sandstone, or whatever was the material of which the "horse" was composed, had been upheared through the coal; but it was far more probable that the real case was different, and that there had been an actual intarruption in the deposit. The seams here also varied in thickness in a very small area, from 8, 10, or 12 feet to a few inches, in a manner which would very much puzzle a person accustomed only to the mines of Newcastle or Staffordshire. The coal measures were frequently associated with beds of argillaceous carbonate of iron, which occurred so regularly as to justify their being looked upon as a part of the series. In like manner, it was customary to find portions of vegetable matter contained in nodules of iron ore. In the valley of the Clyde, particularly in the neighbourhood of Glasgow, this was also the case; and in England, the coal measures of Wales and Staffordshire were noted for similar conditions.

[The following lecture, which contains an account of the various coal-fields in other

[The following lecture, which contains an account of the various coal-fields in other parts of the world, and a general view of their relation to each other, will appear in the next week's Mining Journal.]

ACCIDENTS AND DISEASES OF MINERS.

BY DB, BARHAM.

Read at the annual meeting of the Royal Institution of Cornwall.

The accidents and diseases which befull our miners, always claim attentive consideration in this county, and the renewed interest given to the subject by some observation from Mr. Blee, at the recent Polytechnic Meeting, has induced me to lay before you a few notes, which may serve to illustrate it in some slight degree, although of a rather desultory character. It would appear that there is a want of definite informations as to the proportionate influence of perticular causes of fatal mine accidents. The results of the inquiry made by myself under the Childrens' Employment Commission are, I believe, sufficiently precise to be generally applicable to mines where the ascent is effected by ladders; but blue books do not form a portion of popular literature. Returns were made to me, in 1841, from 33 mines, in which one or more fatal accidents had occurred during the two preceding years. About 15,000 males were employed in these mines, of whom 12,469 were adults. The number of fatal accidents were 75, and of these 70 happened to adults. Of the 73 accidents, 10 occurred at the surface, five of which arose from the bursting of a bolier at Consols, three from entanglement in machinery, and two from other causes. Of the 65 which happened underground, 8 arose from blasting, 25 from falling, 29 from ground or stones falling, and in respect of the remaining six, no cause has been mentioned. The details are given in the following table: from Mr. Blee, at the recent Polytechnic Meeting, has induced me to lay before you a few

Mines.	Dept in fm		No.		Blasti	ng.	Fallin	Groui Fallin		o cause
Wheal Owles					1		-			-
Levant	. 260		460		-		2	 2		on down
Balleswidden			535		_		-	 - 1		_
Botallack	. 150	*****	147		-		-	 _		1
Bosweddan	. 75		90	** **	notes		1	 -	****	_
Providence	. 120		116	****		****	1	 1		-
Ding-Dong	. 100		269		-		-	 1		-
Reeth Consols	. 90		114		-		1	 1		direct.
Godolphin	. 110		_		-		-	 . 1	****	-
Wheal Julia	. 135		-		_		2	 -		-
Carzize	. 120		-		2		-	 -		Arrespo
Wheal Prosper	. 78		184		-		-	 _		1
Wheal Friendship			214		-		-	 -		4
Wheal Virgin			196		-		1	 2		
East Wheal Crofty			619		_		1	 -		Street.
Dolcoath			451		-		-	 1		
Great Wheal Prosper .	. 20		28		_		-	 2		-
Restormel			94				-	 2		-
Tretoil			108		-		1	 1		_
Carnsmorry			122		2		-	 		-
Charlestown			430		_		-	 3		-
Fowey Consols			1067		-		2	 3		-
Wheal Betsey (Devon)			119		-		1	 1		_
Tamar			61				-	 1		-
West Wheal Jewel			107		1		1	 1		*****
United Mines			739		_		1	 -		-
Consols			1003		-		3	 		Michigan
Tresaveau			521		2		4	 -		Name .
West Jewel	. 150		207		-		1	 -		
Grambler, &c			40		-	****	1	 		-
Royal Polberrou Con.			152					 -		pattern.
Wheal Coates			133		-		-	 2		
Cornubian			100		-		1	 		error.
	-						*****			
Total					. 8		25	26		6

In which only one death was thus caused; and from East Wheal Crofty, I was farnished with the particulars of 91 such less injuries in the year 1840, which occasioned a total loss of time of about 890 days.

It may be desirable to place by the side of these results, a statement of the number and causes of statal accidents in our collicries. Independently of the interest belonging to these facts in themselves, to Cornishmen especially, some useful instruction may be derived from them, as they show the amount of accidental deaths in connection with particular methods of ventilation, and of taking the miner to and from his work, and with other arrangements which have been from time to time, and may again be brought under consideration, as applicable to our own mines. The facts, of which I shall offer a summary, are chiefly derived from two main sources. The facts, of which I shall offer a summary, are chiefly derived from two main sources. The facts, of which I shall offer a sumberland, from 1799 to 1840. The second exhibits the mortality from this cause; in the year 1838, in 55 Poor Law Unions containing mines, and having a population of 2,250,000. To this last I shall add the analysis of the fatal accidents which occurred in 1840, giving by the Registrar-General, the results of which, as far as our own miners are concerned, if have already stated. The former body of evidence, extending as it does over a long period, will serve to obviate any miscalculation which might arise from a casual excess or deficiency of a particular kind of accident in a single year; whilst the latter, applying to so large a portion of the country and its population, will prevent misconception from the tendency which may exist to certain accidents in single districts. In the 40 years then comprised in the former statement, there have been ascertained to have occurred in the Tyros and Wear Collicries, 1480 deaths from accident is nisingle districts. In the 40 years then comprised in the former statement, there have been ascertained to have

nature, relative frequency, and the destruction	causeu	by cach cras	s were as fullor
			Deaths cause
Explosions and consequences			
Suffocation by gases in the pit			
Inundations from old workings			
Falling of earth, rubbish, &c			
Chain or rope breaking, &c			
Run over by rolleys and waggons		13	13
Boilers bursting		5	34
		-	-

It will be observed that 1325 deaths, nine-tenths of the whole, were caused by explo It will be observed that 1325 deaths, nine-tenths of the whole, were caused by explosions or inundations. These are the appalling accidents of the coal mines to which our own scarcely ever present a parallel; for, though 1242 deaths were distributed over 87 explosions, yet a great many of these were attended with very large loss of life; in 17 in-stances, more than 30 lives were sacrificed at once, and in one of these 92, in another 102, were swept off; so in the case of inundations, of the 83 killed by four accidents, 75 were destroyed in one of them. The terrible calamity, by which 40 poor men lost their lives in East Wheal Rose Mine last year, was, I believe, quite unprecedented in the West of England, and may be said to have arisen from causes wholly foreign to the conditions properly belonging to our mining operations. With regard to 18 of the 45 deaths arising from accident in according or descending the half, it is margin stated that the extrict England, and may be said to have arisen from causes whony foreign to the constitution properly belonging to our mining operations. With regard to 18 of the 45 deaths arising from accident in ascending or descending the shaft, it is merely stated that the parties "fell down the shaft," or were "crushed by a fail"—it is, therefore, uncertain how far in these instances the result was connected with the method of ascent or descent, which is always independent of any exertion on the part of the miner, who is lowered to his work and taken up again by machinery in a bucket or box of some kind, varying at different periods and in different collieries in size, form, and security.

The second body of facts is that furnished by the district register of deaths for 1838 and 1840. From the 55 unions to which the statement for the former year relates, I have separated six, in which the mines of this county are chiefly situated, and containing above 500,000 inhabitants. In the other mining districts of England and Wales, having a total population of nearly 2,000,000, the deaths by accident distinctly recorded as having happened in the mines in 1838 were 227, and of these 54 were under 13 years of age. In the Cornish districts 34 were killed, of whom four were under 13. The registered causes are shown in the following table, in which Cornwall is distinguished from the other parts of the country:—

Cornwall. Other Mining Dis.

	Cornwall.	
Fell down the shafts	9	 61
Ditto from rope breaking		 3
Fell out when ascending		 3 .
Drawn over the pulley		 6
Fall of stone out of a skip		 4
Drowned in the mine		
Fall of stones, coal, and rubbish	. 4	 93
Crushed in coal pits		 2
Explosion of gas		 80
Suffocated by gas		 8
By tram waggons		 21
Explosion of gunpowder		2
Injuries in coal nits and mines nature not encelfic	4 18	54

violent deaths which occurred in 1840, given by the Begistrar-General, and distinguishing the occupations of the sufferers. We are here furnished with materials for comparing the mortality from this table among miners with that in other classes of the community; and also, for comparing the several mining districts with each other in regard to the frequency and the kind of fatal accident. By the census of 1841, the number of males, 29 years old and upwards, employed in mines for coal, salt, and the metals, was 184,667. Among men of this ago and class the violent deaths registered in 1840 were 498, of which seven were ascertained suicides. The only employment equally fatal in this way is the navy and merchant service, at home, which is more so, in the proportion of 4006 to 3939. Compared with the deaths from this cause amongst agricultural labourers, those of the miners were as 3339 to 121; and as 3399 to 940 compared to those among men of the same age in the community at large. It may be worth mentioning, by: the way, that suicide was rare among the miners, its occurrence being less than half as frequent, in proportion to the total numbers, as in the class of agricultural labourers, The distribution of 483, out of the above 494 deaths by violence, among the several mining divisions of the country, may be seen, tegether with the relative operation of the principal causes, in the following table:—

Counties.	Total d	leaths			Falling.	Explo-
Wilts, Dorset, Devon, Cornwall, Some	rset	48 .	 1	3 .	 . 4	 . 9
Gloucester, Hereford, Salop, Worces Stafford, Warwick	ster,}	146	 8	32 .	 20	 13
Chester, Lancaster		76 .	 5	25 .	 . 16	 . 12
York					. 6	
Durham, Northumberland, Comberia Westmoreland		74 .	 5	22 .	 . 15	 . 5
Monmouth and Wales		101 .	 1	5 .	 . 6	 10

The precise nature of a large proportion of the accidents has not been specified, but this also bears on all the districts, and enough is stated to furnish data for a comparative firmate. This may be further advanced by the following tabular view, drawn from the me report, of 195 instances of accidental death, in 1840, at all ages, and including temperature of the proposed property of the proper

Counties.	a	coal pit	0	r		a	п	netal a	ne	01	1	explo- sions.			by foul air.
Western Counties		. 1						7	 			detect		 	 -
Gloucester, Hereford, &c.		. 36			۰			6	 			12			 -
Chester, Lancaster		. 30						-	 			17			 4
York		. 11						-	 			22	. 1		 100.0
Durham, &c		. 15						1	 			2		 	 2
Monmouth and Wales		. 3						-	 			20			 . 6
	34	-										-			-
Total		. 96						14				73			12
W												4 31.00			

It will be seen that in all these comparative statements, great differences are apparent among the several coal-fields in the prevalence of accidents. They are partly to be explained by differences in the beds of coal, partly by the superiority of the arrangements in certain districts, usually attendant here as elsewhere, on the greater extent of capital emburked. On these points I need not enter; my purpose having been to show the relative position as to risk of death by accident of two great classes of miners working under different circumstances, and passing to and from their place of work by a different method. It is quite clear that the collier, whilst he is subject to fearful catastrophes unknown to our mines, is very far indeed from being effectually protected at present by being lowered and raised by the bucket system, from losing his life by falling himself, or by stones falling on him in the shaft.

known to our mines, is very far indeed from being effectually protected at present by being lowered and raised by the bucket system, from losing his life by failing himself, or by stones failing on him in the shaft.

I had intended to have rande a &w remarks on the general subject of the diseases of miners; but this paper is already so long, that I shall confine myself to a very brief notice of a species of consumption found amongst the colliers, which may furnish, I think, some valuable hints as to the nature of many cases among our own miners. The life of the collier is shortened by his occupation, like that of the miner, though not in most districts to the same extent. Where the two are brought together, as in some parts of Wales, it is said—"At 30 a miner begins to look wan and emaciated, and so does a collier at 40." Diseases of the heart are stated to be frequent among the latter in all the districts, and astimatic complaints affect almost all from 30 to 40 years of age. This form of asthma is very commonly attended by a dark expectoration, giving a popular name to the affection in the North of England, where it is not very intractable. But the essential identity of the cause and nature of the malady, in all the collieries, seems to be rendered manifest by the observations made on its fully developed form in some parts of Scotland. The Pencalitand Colliery, in East Lothian, has furnished the most marked examples of this black phthisis. It has been described by several medical men, especially by Drs. Thomson, Allson, and Makellar. The latter, who has written the most recently and extensively on the subject, has found that the lungs have been gradually invaded by carbonaceous matter, and at length in great part transformed into it; the symptoms progressing from such an amount of disorder as does not quite incapacitate for labour, to the lowest degree of exhaustion. Dr. M., in one case, reduced the carbon expectorated to a beautiful black powder; the quantity was a druchm and-a-half daily, and in a week her

the new method.

Dr. Barham proceeded to read these communications, which we are sorry to be unable to give in full. They all speak in the highest terms of the man-engine. "No man," says C5pt. Jennings, "can tell the value of this engine, respecting the comfort and health of the men, and saving of the mine; the men can do full a third part more work for the same money." He mentions an instance of the resamption of underground labour by an old miner, who had been incapable of it four years prior to the new method. "I have inquired," he continues, "and cannot find one case of spitting of blood or consumption, brought on in these mines since the man-engine has been working;" and he proceeds to mention his own restoration from a very declining state of health, induced by climbing. The depth of this mine is 342 fms. Two boys have failen off the platform through carelessness; no other accidents have happened; and Capt. J. shows that, besides its greater safety in other respects, the risk is further reduced in consequence of the feet being moved once only in 2 fms., instead of 12 times. In the United Mines, the man-engine has been only two years at work. Its influence, therefore, Capt. Francis states, only begins to be felt in the lessening of the number of persons receiving relief from the isck fund. This decrease has, however, been decided in the last eight months, and Capt. F. attributes it mainly to that machine; but, he considers, and no doubt justly, that the intense heat of the lower levels, obliging the miner to retire often during his hours of work, to bathe himself in water of a much lower temperature, is a main cause of the extreme exhaustron which prepares the way for disease. The statement made by Mr. G. Michell, is highly favourable. He writes thus:—" From my observation, I should say that pulmonary and cardiac diseases are certainly of less frequent occurrence than before the introduction of the man-engine." "The miner's powers of resisting disease are greatly increased; he can perform much more work th Dr. Barham proceeded to read these communications, which we are sorry to be unable

Dowlais Iron-Works.—Two men, J. Evans, D. George, and a boy, H. Jones, were suf-cated in one of the ironstone pits, by a sudden influx of carbonic acid gas. Penyacaun Colliery, Hirvain, Merthyr.—E. Thomas was killed by a fall of rubbish.

Pontypool.—A quarryman, in the employ of Mr. R. Morrison, was most dangerously wounded by a stone, of nearly a ton weight, falling on him—he is, however, recovering. Flowery Field Colliery, Stalybridge.—J. Wood was, unfortunately, killed by a fall of roof at Messrs. Ashtons.

Hurst Knowl Colliery, Ashlon.—W. Spitt fell down the shaft at Messrs. Whittakers', and, we are sorry to say, was killed.

Knution.—S. Lawton was killed by a quantity of stone falling upon him while working in an ironstone pit.

Blaina, Monmouthshire.—We regret to learn, that Thos. Deakin, aged 21, while working in the colliery, had his spine fractured by the falling of a quantity of earth and rubshir after lingering about a fortnight, death put a period to his sufferings.

Roveley Regis.—J. Whittle was unfortunately killed by a fall of coal in Mr. Barr's colery, at Haden Hill.

West Bromwich.—T. Roberts was killed, by a fall of coal in Messrs. Bottley and Tins, ley's colliery.

ley's colliery.

Billinge Higher End, near Manchester.—As two men were engaged at Mr. Stock's colliery, repairing some pump trees in the shaft a derangement of the machinery occurred, and they were thrown to the bottom of the pit. One of them, in his downward course, struck a scaffolding of 2-inch boards, and broke out a hole sufficiently large to let his body through; both the unfortunate fellows were killed on the spot.

Fatal Accident to the Underlooker of Messrs. Scowcrofts' Collieries.—An accident has occurred at one of the pits belonging to Messrs. Scowcroft, Hindley-green, near Leigh, which has terminated in the death of the manager, Mr. John Potter. The deceased was going curred at one of the pits belonging to Messrs. Scowcroft, Hindley-green, near Leigh, which has terminated in the death of the manager, Mr. John Potter. The deceased was going down the shaft of the pit, with one of the men, on Saturday morning last, for the purpose of examining the ventilating furnaces, when a screw-key, which, it is supposed, had been left in the head-gearing by one of the men, foil down the shaft, and fractured the skull of the deceased. The deceased became immediately insensible, and was conveyed home. Mr. Rowlingen, of Wigan, and Mr. Bridcoake, of Leigh, were speedly in attendance, and with Mr. Scowcroft, of Wigan, and Mr. Thorpe, of Manchester, rendered every assistance, the theory of the deceased is deeply regretted by all who knew him. Mr. Potter was a self-taught man, and had, by his own exertions, raised himself in society. He was an excellent mathematician, and possessed a valuable library. He was one of the cariless promoters of the Leigh Mechanics' Institution, and was, for two or three years, an active director. The collecties, during his management, have been remarkably free from accidents, owing to bis unremutiting attention. He leaves a widow and six children to mourn his loss.—Manchester Paper.

his loss.—Manchester Paper.

Wigan—The Floods and the Coal Mines.—A suspension of labour at the pumping and winding engines has, we are sorry to say, taken place at several of the coal-pits, flooded by the breaking in of the River Douglas, and when active operations will be resumed we fear is uncertain. There is not that unanimity amongst the coal proprietors which is necessary for carrying on so great a work as the clearing of the mines will prove to be. What has been done up to the present time is a mere nothing; and unless some more general and more powerful plans and machinery are introduced and actively engaged, the day when the mines will be cleared must be pronounced very remote. The friends of the miners shut upfin/lessrs. Lancaster and Co.'s pit, are in a very distressed state, and there are great numbers totally out of employment, and entirely on the charity of their neighbours.—Liverpool Mercury.

The Crown mines in the Austrian dominions are said to have lately been so productive, that the cellars of the Treasury now contain 50,000,000 floring in gold and silver bars.

Mining Correspondence.

ENGLISH MINES.

ENGLISH MINES.

BARRISTOWN.—The lode in the 18 fm. level end, west of Slob shah, is at present about 10 in. wide, with a small branch of lead in it, about 2 in. wide, looking more regular than last reported; the stopes in the back of the level, behind this end, are worth 8t. per fm.; the stopes in bottom of level are also worth about 8t. per fm.; the stopes over Doyle's, in the back of the 18 fm. level, are improved, worth at present 20t. per fm. The 12 fm. level end west is at present producing stones of ore in a large lode; the lode in the winze, sinking in the bottom of the 12 fm. level (middle lode), is worth about 10t. per fm.; at the present depth of this winze we are rather doubtful if it lengthens. We have a cross-cut from the 18 fm. level, driving south, to communicate with the bottom of this winze, in a cross-cut south from the 12 fm. level, where the lode is taking off horizontally; it looks rather better than for some time past, worth about 8t. per fm.—Dec. 24.

BEDECORD INITEED.—At Wheel Margnis, the lode in the 90 fm. lavel, west.

BEDFORD UNITED.—At Wheal Marquis, the lode in the 90 fm. level, west of the sump winze, is much the same as when last reported; in the 90 fm. level cast we have not yet cut the lode east of the cross-course. The lode in the 80 fm. level east is 2ft. wide, producing stones of ore, and emitting a great quantity of water. The lode in the 70 fm. level east is about 2 ft. wide, and is much the same as when reported last. Hooper's winze, in the 80 fm. level, east of the engine-shaft, is now to the level of the 90, and we have commerced driving south to cut the south lode. In the cross-cut, south of the engine-shaft, in the 70, we have discovered a small branch; but, as we expect there is more lede ahead, we still continue to drive. The engine-shaft is down about 24 fms. under the 80 fm. level. The lode in the 25 fm. level, on the south lode, is much the same as described in our's of last week. The lode in the adit end, on this lode, is 2ft. wide, producing stones of ore.—Dec. 28.

CALLINGTON.—The ground continues very soft for driving south to the east of the cross-course, in the 50 fm. level. In the 70 fm. level cast, the lode is near 5 ft. big, and will produce 6 tons of ore per fm.; in the rise in the back of this level, we have a good orey lode come in the western end, 18 in. big, and will produce 24 tons per fm.; we expect the cross-course is very near this point. The rise in the back of the 100 fm. lovel has been holed to the 90, and we have commenced driving south; the lode is producing work of a moderate quality. No alteration has taken place in the 90, in the south or east. At the south mine, in the 125 south, the lode is 18 in. big, intermixed with silver-lead ores; in the north end, no lode has been taken down. In the 112 north, the lode is 16 in. wide.—work of a moderate quality. In the 100 and 90 fm. levels, driving north, we are opening tribute ground.—Dec. 27.

CASCADE.—Since my last, we have passed through a vein of quartz, 2 in. wide spected or the 200 and quality. I intend to open on BEDFORD UNITED .- At Wheal Marquis, the lode in the 90 fm. le

CASCADE.—Since my last, we have passed through a vein of quartz. 2 in. wide, spotted with yellow copper ore, of good quality. I intend to open on this vein next week 3 or 4 ft., to see if it improves in size, then I will write you the particulars. The adit is progressing tavourably—the cross-course is 1 ft. wide, composed of calcarcours spar, mundic, and flookan. Our prospects are better as we get deeper in the hill. The vein we have cut is 22 fms. from the mouth of the adit.—Dec. 28.

COATLITHE HILLS.-No material alteration has taken place here since

are better as we get deeper in the hill. The vein we have cut is 22 hns. from the mouth of the adit.—Dec. 28.

COATLITHE HILLS.—No material alteration has taken place here since I last wrote. The men having been again employed in clearing the level east from A shaft, I hope to get on quicker in a short time, as, when we have cleared about a fathom further, there will be no stope to take up, the bottom of the old level being as low as the bottom of ours.—Dec. 27.

DEAN PRIOR AND BUCKFASTLEIGH.—I am much pleased with the appearance of the lode in the 20, west of engine-shaft; there is a decided improvement since my last visit to the mine, as I then anticipated, from the indications noticed in my last report; the lode is more than 3 ft. wide, and the north wall not yet opened.—a regular leader, 1 ft. big, composed of spar, prian, &c., mixed with yellow copper ore, and apparently getting larger going west; there is also more water issuing from the lode than I have ever seen before—therefore, I think there is every chance, ere long, to meet with something very good, as the lode is precisely of the same character as in other parts of the level east, where it has been productive of great quantities of copper ore; the end is set to-day at 5t. 10s. per fin.; the engme-shaft is sunk 5 fins. 2 ft. 6 in. below the 20 fm. level, and set to sink 5 fins. deeper for 65t, by nine men; the ground is of a hard killas, and very clean from spar, of a blue colour; I perceive what was sunk above, by the former company, to be mixed with capels and spar, owing to a confused, or disordered, piece of lode opposite its intersection in the shaft.—therefore, I am of opinion, agreeable to the dip of the lode above, there is every probability of a change for the better in depth on the intended level, now sinking to, which will be completed at an expense, bordering, as near as possible, to the estimate given; the pitch, in the back of the 20, is rather improved—the lode is large, and producing some very good copper ore. The 24 ft. wheel is ere

DEVON AND COURTEMAY CONSOLS.—In our deep adit level the lode is 2 ft. wide, composed of spar, mundic, and killas, with occasional spots of ore. The ground in the cross-cut, driving north from engine-shaft, to intersect the ode, continues favourable. The men have nearly cut the plot, and will commence driving a level, 7 ft. high, and 4 ft. wide, in a day or two. I think the pitch on the north lode is not looking quite so well as last reported.—Dec. 28

mence driving a level, 7 ft. high, and 4 ft. wide, in a day or two. I think the pitch on the north lode is not looking quite so well as last reported.—Dec. 28 GALLOWAY.—During the week, our attention has been directed here to finding the underlay of the lodes, with a view to ascertain the best situation to sink the shaft. The weather has been exceedingly wet and stormy, so that but little progress could be made. We expect, however, to be able to commence the shaft by Tuesday next on the course of the east and west lode, and about 5 fms. west of the north and south one, as the latter lode is dipping that way; both lodes appear very large at the intersection, and very kindly.

GREAT MICHELL CONSOLS.—The lode in the sump winze is without material alteration, being 5\(\frac{5}{2}\) ft. wide, producing some good saving work, and promising improvement. In the 3\(\frac{5}{2}\) fm. level, west of the sump winze, the part of the lode being carried is 4\(\frac{1}{2}\) ft. wide, containing mundic and spar, with a small proportion of ore intermixed throughout—very promising.—Dec. 28.

HOLMBUSH.—The 13\(\frac{2}{2}\) fm. level is extended nearly 5 fms. south of the diagonal winze, and neither of the branches intersected that underlie through the shaft in that direction; the end is still in killas strata. In the 120 fm. level, south-west of the slide, we have intersected the caunter part of the lode, which was driven south by the slide; it is 10 m. wide, composed of spar, mundic, and spots of copper ore; from this point we have 4 fms. only to drive west to intersect the lead lode, which we have set to accomplish; the lode in the stopes, in the back of the 120 fm. level, east of the cross-course, is 18 in. wide, producing 24 tons of copper ore per fm. The rise above the 110 fm. level south, on the lead lode, is communicated to the 100 fm. level, thereby laying open a piece of tribute ground, and ventilating both levels; we shall resume driving the 110 fm. level south on the lead lode. The lode in the 100 fm. level south is 3

KIRKCUDBRIGHTSHIRE.—The lode in the 50 fm. level end is 3½ feet wide, producing stones of ore—set to-day to six men, at 4l. per fm. The lode in the 40 fm. end is 4 ft. wide, producing \(\frac{2}{3}\) ton of lead per fm.—set to six men, at 4l. 4s. per fm.; the winze sinking under this level is in a hard lode, producing 1 ton of lead per fm.—set to six men, at 7l. per fm. The lode in the 30 fm. end west is 4 feet wide, producing \(\frac{2}{3}\) ton of lead per fm.—set to six men, at 3l. 10s. per fm. The 20 fm. end, having been holed to Keith's shaft, is discontinued, on account of the dip of the ground at surface going west. The lode in 3d. 10s. per fm. The 20 fm. end, having been holed to Keith's shaft, is discontinued, on account of the dip of the ground at surface going west. The lode in Keith's shaft is 4 ft. wide, an 1 yielding \(\frac{1}{2}\) a ton of lead per fm.—set to nine men to sink it to the 80 fm. level, at 7l. per fm.; each bargain has 20s. per ton for saving lead. The following pitches are also set—viz.: one in back of the 40 fm. level, at 3l. 10s. per ton; one in bottom of ditto, at 5l.; one in bottom of the 30 fm. level, at 4l.; and two ditto, at 4l. 10s.; one ditto, at 3l. 10s.; and one in bottom of the 20 fathom level, at 3l. 10s. per ton. On Monday last we shipped 38 tons 6 cwts. of lead per the Mary, for the Holywell market.—Dec. 24

LEWIS.—The lode in the engine-shaft, sinking below the 60 fm. level, is 18 in. wide, yielding some tin, and very promising; the lode in the 60 fm. level, is 18 in. back of the 60 fm. level, on south branch, is 1 ft. wide, worth 8L per fm. The lode in the winze, sinking below the 50 fm. level, on south branch, is 18 inches wide, worth 11L per fm.; we expect to have a communication through this winze in the 60 before the expiration of this year, immediately after which we shall resume the 60 end east and west from the said winze. Our tributers are working with spirit, and making fair wages at their different tributes.—Dec. 24.

POLSAITH CONSOLS.—I am informed the adit, at Trebetherick, was driven about 10 years since, which is extended on the course of the lode about

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90 fms., varying in size from 9 in. to 4 ft. wide, with well-defined walls, and is composed of gossan, spar, flookan, and good stones of salphuret, and a little carbonate of lead; the lode is underlying west about 23 ft. in a fm., and runs 30° east of north. The backs are chiefly taken away, as is also the bottom-about 50 fms. long, and from 3 to 8 fms. deep. Report says, there have been 12002 worth of lead ore sold from this level, and that there is a good lode going down in several places, but not having the means to erect machinery to pump the water, it was abandoned. The stopes are full of water at present-consequently, I cannot vouch for the authenticity of this statement. The present company are sinking an engine-shaft about midway of this adit, which is about 10 fms. deep; they intend to sink 2 fms. more, and drive to the lode, which will take about two months from this time, and can be done without machinery, as the water is not so quick as was reported. This shaft is sunking in the country, which is expected to take the lode about 20 fms. under the adit. The country which the lode passes through, in this part of the mine, is a hardish slate. North of this adit, the lode takes an oblique direction, through Polsaith Valley, for about 169 fms., and then enters Tinner's Hill, which belongs to the same sett, where an adit is taken up, and driven, by the present company, on the course of the lode about 30 fms. where it is from 3 to 8 ft. wide, composed chiefly of splendid gossan, mundic, hard and friable quartz, with large stones of lead ore imbedded in the gossan, which produces a quantity of carbonate and arseniate of lead. The ground, by the side of the lode, in this part of the mine, is a soft blue elvan, which is congenial for lead. There is an engine-shaft in course of shiking in the country (now about 8 fms, below adit), near the mouth of this adit, and it is expected that the lode will be seen here, in the 12 fm. level, in about three months. The engine now on the mine, but not y the mine, but not yet erected, is intended to draw the water from both shafts; and from the water being so easy, the engineer considers it will pump all the water 40 fins. deep, which will give the mine a fair trial. In conclusion, I would beg to remark, that, although several of the mines in this district that have been partially tried; have not been worked to much profit, probably owing to bad management, and the lodes not fairly developed, and the prejudice that many people have against mines in this neighbourhood; I consider the lode in Folsaith to be of sufficient promise to warrant a reasonable outlay; and further, would particularly direct your attention to Tinner's Hill and the valley, where I have no doubt large deposits of one will be found. I find the three stones I took to produce, by assay, as follows:—The stone of lead ore 80 per cent. for lead, but very little silver; the stone of gossan, 5 ozs. of silver to the ton; the stone of mundic, 25 ozs. of silver to the ton.—Dec. 14.

80 per cent. for lead, but very little silver; the stone of gossan, 5 ozs. of silver to the ton; the stone of mundic, 25 ozs. of silver to the ton.—Dec. 14.

SOUTH FRIENDSHIP WHEAL ANN.—The ground in the 28 cross-cut south is still favourable for driving, and we are still intersecting branches of mundic, spotted with copper; the western side of the cross-course is more composed of fluor-spar and blue killas, which we account for as we are getting re if the lode. Should the ground continue favourable, and the lode a regular underlay, we expect to cut it in about six weeks—Dec. 28.

SOUTH WHEAL TRELAWNEY.—In handing you my report of the above mine, in the first place, I beg to inform you, that the ground sunk through this month is not so much as in former months, in consequence of the shaftmen being employed some part of the time assisting pitmer in fixing lift, rods, stays footway, &c., and a balance-bob at surface, which work is now made all complete, and answers very well indeed; having finished the above work we can sink the engine-shaft without incurring any risk (comparatively speaking) to the lift or engine, and, we hope, without lets or hindrances. The ground in the shaft is a light blue killas, in some parts of which is often found spots of copper and mundic, and at present is so favourable, that we anticipate the shaftmen sinking from 4 fms. to 5 fms. next month; it is now stink to the 21 fm. below the add level; the quantity of water we have is just as it has been for some time past, barely 1\frac{1}{2} strokes per minute for the engine, which works remarkably steady.—Dec. 24.

TAMAR SILVER-LEAD.—The engine-shaft is sunk 11 fms. 4 ft. below

remarkably steady.—Dec. 24.

TAMAR SILVER-LEAD.—The engine-shaft is sunk 11 fms. 4 ft. below the 160 fm. level, and we hope one month more will put it down to the 175. In the 160 fm. level south, the lode is 18 in. wide, composed of mundic and ore—saving work; in the same level north of the shaft, the lode is 2 ft. wide, producing good stones of ore. In the 145 end, the lode is 18 in. wide—very good saving work. In the 135 end, the lode is 2 ft. wide, composed of can and ore of coarse quality. The 125 end is suspended for the present, in consequence of so much work coming from the levels below. In the 115 end, the lode is 15 in. wide, composed of flookan and capel—discharging a quantity of water. At the north mine, in the 70 rise, the lode is 1 ft. wide, composed of can, mundic, and ore, coarse in quality. In the winze sinking in the bottom of the 60, on the eastern branch, the lode is 20 in. wide, with good stones of rich silver-lead ores. The steam-whim will commence working about the 9th of next month. We hope to sample on the 30th inst. about 90 tons of ore.

TAYY CONSOLS,—Our shaft continues to improve in sinking, and about

of next month. We hope to sample on the 30th inst. about 90 tons of ore. TAVY CONSOLS,—Our shaft continues to improve in sinking, and about the end of this week the sumpmen will have completed their bargain to sink 5 fms., when we shall begin to drive our 36 fm. level east and west on the course of the lode; from this level we may anticipate good returns; it will take near two months before we can begin to sink again. We sampled 72 tons dry ore on Thursday, the 24th, and would have had above 80 tons, had we not met with an accident, and broken the shaft of our grinder, which three us back in our dressing. We have now from 40 to 50 tons of ore on the floors, and hope to have 100 tons for sale this month, as the weather is favourable. We cut the cross-course in the 24 fm. level yesterday, with very promising spots of lead in it, and shall know more about it in a few days.—Dec. 80.

TRELEIGH CONSOLS.—Christoe's shaft, below the 110 fm. level, is sinking in the country. In the 110, east of ditto, the lode is 23 ft. wide, with

TRELEIGH CONSOLS.—Christoe's shaft, below the 110 fm. level, is sinking in the country. In the 110, east of ditto, the lode is 23 ft. wide, with a kindly appearance, but stones of ore only. In Gardens's shaft, below the 100, the lode is 3 ft. wide, rather kindly, with stones of ore. In the 100, west of, ditto, the lode is 3 ft. wide, rather kindly, with stones of ore. In the 100, west of, ditto, the lode is 8 in. wide, with stones of ore, not to value; it appears to be leaving the elvans. In the 90, west of ditto, the lode is 20 in. wide, producing good stones of ore; in the winze, below the 90 west, the lode is 23 ft. wide, worth 201. per fm. In the 80, west of ditto, the lode is 25 ft. wide, worth 201. per fm. In the 80, west of ditto, the lode is 23 ft. wide, with a small quantity of ore. In the 60, west of ditto, the lode is 23 ft. wide, with stones of ore; it winze is stopped by an increase of water. Wheal Parent cross-cut north is driving in the country. In Lackett's shaft, below the 10, the lode is 1ft. wide, with stones of ore. The engine shaft, on Wheal Parent, and the whim-shaft, are suspended, having an increase of water, which cannot be drained to work them to advantage at present. Our water has very much increased of late through the mine, in consequence of the heavy rains.—Dec. 25.

WEST WHEAL JEWEL.—In the 57 fm. level, west of Williams's cross-

quence of the heavy rains.—Dec. 25.

WEST WHEAI. JEWEL.—In the 57 fm. level, west of Williams's cross-course, on Wheal Jewel lode, the lode is 1 ft. wide, worth 3l. per fm. In the 42 fm. level, east of little cross-course, on the south lode, the lode is 1 ft. wide, looking more promising for ore than it was when last reported. In the 37 fm. level, west of Quarry shaft, on Tolcarne tin lode, we are driving soulh, in search of more lode. In the 20 fm level, west of Quarry shaft, on the same lode, the lode is 1 ft. wide, worth 6l. per fm.; in the deep adit end, west of Quarry shaft, on the same lode, the lode is 15 in. wide, worth 10l. per fm.: in the shallow adit, west of Quarry shaft, on the same lode, the lode is 1 ft. wide, unproductive; in the stopes, in the bottom of the adit, east of Pryor's winze, on the same lode, the lode is 6 ft. wide, worth 45l. per fm. In the stopes, west of Pryor's winze, in the back of the 12 fm. level, on the same lode, the lode is 5 ft. wide, worth 30l. per fm. Tregoning's shaft is suspended, in consequence of a large increase of water. We hope the time will not be long before we shall be enabled to sink it again.—Dec. 27.

WEST WHEAL MARIA.—The eastern engine-shaft is down below the 38 fm.

WEST WHEAL MARIA.—The eastern engine-shaft is down below the 38 fm. level 4½ fms.; the lode in which is about 3 ft. wide. producing good stones of ore in places, and ground favourable for sinking. The ground in the cross-cut south, in the 54 fm. level, is much the same for driving as it has been for some time past, rather hard.—Dec. 28.

time past, rather hard.—Dec. 28.

WHEAL ADAMS.—We have been engaged during the past week in stoping the eastern lode, between the 40 and 50 fm. levels, at which depth the flookan or superincumbent black clay has made an angle of 40° westerly—the lode having intersected it, dwindles to a mere thread, and is, consequently, unproductive; the ground, a few feet to the west of the clay, being of a more unproductive; the ground, a few feet to the west of the clay, being of a more congenial character, we opened on it and found the quartzose lode about 3 ft. wide, worth 15t. Per fm. We do not at present expect from the dip of this lode, and from the probable resumption of the former underlay of the flookan, that it will be affected by the clay as we develop it at a greater depth; but, to prove this, we propose to open the timbers in the 50, and, if necessary, to drive to cut the lode, which has either been lost sight of at this point, or it has never been discovered. This is an important feature in the concern—inasmuch, as the lode produces more silver in depth, as the results of our assays will show:—No. 1, from the 18 fm. level, produced 10 cwts. of lead and 9 ozs. 5 dwts. of silver in the ton of ore; No. 2, from the 28 fm. level, produced 10 cwts. 2 qrs. of lead and 16 ozs. of silver in the ton of ore; No. 3, from the 40 fm. level, produced 11 cwts. 1 qr. 14 lbs. of lead and 21 ozs. 10 dwts. 12 qrs. of silver in a ton of ore; No. 4, from between the 40 and 50, produced 11 cwts. of lead and 26 ozs. of silver in a ton of ore; No. 4, from between the 40 and 50, produced 11 cwts. of lead and 26 ozs. of silver in a ton of ore. The eastern lode contains rather more silver in the shallow than it does in the deeper levels. There is no alteration worthy of notice in any other part of themine. We shall sample, to-morrow, a parcel of silver-lead ores, computed 30 tons—samples of which will be immediately forwarded to the purchasers of lead ores. This parcel would have been got ready to offer for sale on the 24th, but for heavy rain, which fell for several days successively, and prevented our doing but little on the surface.

WHEAL SAMSON.—The men, for the last week, have been engaged in

deal of arsenic, apots of lead pyrites, and white iron—I should say a very kindly lede. We are now about 10 fms. from the junction, and, as we drive on, the lode increases in size. There is not a doubt on my mind, but what we shall discover such indications at the intersections, to encourage us to go down to high water-mark, so as to cut the lode about 60 fms. from surface without the least machinery, which, of course, is a great advantage. The north and south lode have been worked on for many fathoms in length—not more than 4 fms. from the sloping declivity of the cliff, where, I am given to understand, there have been hundreds of pounds worth of silver returned from a small branch. We have taken samples from the remains of this branch, and found it to be worth upwards of 1501, per ton for silver, and there is every reason to expect that the junction, in deeper levels, will produce large quantities of the like quality.—Dec. 28.

WHEAL TREEA WNEY—Phillips's shall is still favourable for sinking.

expect that the junction, in deeper levels, will produce large quantities of the like quality.—Dec. 28.

WHEAL TRELAWNEY.—Phillips's shaft is still favourable for sinking. The lode in the 52 fm. level south is worth 15% per fm.; this level north is worth 12% per fm.; the stopes in the back of this level are looking very well. The 42 fm. level north is worth 11% per fm., where the lode is large; the stopes here, and to the south of the shaft, are not, on the whole, looking so we as I have seen them, but are still producing a fair quantity of ser. The 32 fm. level north, and stopes in the back, are similar to last report. We are getting on with fixing the work in Trelawney shaft, preparatory to sinking as fast as possible. The ground is still rather hard in the 42 cross-cut west; as is, also the 22 cross-cut east. We are stoping down a piece of ground at Vivian's, on the course of the lode, before commencing driving the 30 fm. level north, which is producing some very good ore. In consequence of the late wet season, and the impediment occasioned by this festival, we are not so forward in dressing the ore as I could wish, although we had a sufficient quantity at surface to sample this day, had it been dressed—consequently, I expect to sample about 75 tons on Thursday next. On Friday last, we again sat the three bargains of halvans, for the lead only, at 5s. 4d., 7s., and 8s., in the 1%, for 2 months.—Dec. 28.

WHEAL TRESCOLL.—Having had it intimated that the rich sample of

halvans, for the lead only, at 5s. 4d, 7s., and 8s., in the 1l., for 2 months.—Dec. 28.

WHEAL TRESCOLL.—Having had it intimated that the rich sample of tin ore sent to the office in London, could never have been taken from any regular lode, I have this week again sunk down on the back of it, which I was only enabled to do by having two men baling out the water—we having no pumps suitable for that purpose; two other men were then picked on to work, end, in two hours, raised 40 sacks of work—the average produce of which was over 1200 lbs. to the 100 sacks. It is now dressed, and, on Friday, it will be sent to the smelting works and sold. I estimate its value at 12t. Having now proved this rich deposit of tin to be a regular lode, about 4 ft. wide, I have only to say that, with the other two rich lodes, the three common lodes, and the 18 branches, this mine is open to challenge all the kingdom. I have been a tin miner and tin dresser all my life, and know nearly every good tin mine in Cornwall; but, as an infant mine, Wheal Trestoll surpasses everything I have ever yet seen.

FOREIGN MINES.

ALTEN MINES.—The following is the estimated produce for October:—

mines.	Tons ore.	reret. 10n	a copper:
Raipas	 85	. 6	5.10
United Mines	 30	. 6	1.80
Ryper's			
Mancur's	 10	. 5	0.55
Michell's	 15	. 6	0.90
Old Mine			
Powder House	 . 4	. 54	0.55
Carl Johan's	 . 2	. 8	0.16
Quœnvig	 2	. 6	0.13
Church	 3	. 6	0.18
New Lodes	 . 2	. 6	0.13
Total	 183	1	0.95

Mining Report from October 27 to November 11.

Mining Report from October 27 to November 11.

Raipas.—The favourable prospects in the bottom and north-west workings on Labouchere's lode, continues equally fattering, although no further improvement can be noted. The sinking of Monk's shaft under the 10 fm. level has been commenced; and, at the depth of 3 or 4 fms., we expect to intersect Labouchere's lode, and the continuation of the bunch of ore discovered in the 10 fm. level, towards the north-west. Operations have also been resumed on Catr's lode, which can now be worked easier, and at less expense, smite a diffect communication has been formed with the surface through shaft No.1. All the workings continue promising, and we still feel confident of being able to keep up the insural regular returns of ore throughout the winter.

Luibed Mines.—Ward's lode continues to yield regular and good returns; but at Woodfail's, the produce has been rather fluctuating. From Hoskins's lode, a small parcel of tolerably good ore has been rather fluctuating. From Hoskins's lode, as mall parcel of tolerably good ore has been returned, and the tributers have also risen some small parcels from the branches in other parts of the mine. Petherick's lode, and the old workings about Crowe's shaft, might also be worked advantageously on tribute; but, at present, the expense of draining this part of the mine would be too great for the limited means at our disposal, and must, in consequence, be postponed to some future time.

Repers.—The further exploration of the new lodes must he postponed until the spring of next year; and, in the meantime, the greater part of the workinen will be employed on tribute, for the purpose of keeping up the usual supply of ore to the smelting-house.

Mancur's—The turnsual mild weather at this season, enables us to continue a part of the surface operations, and we are now quite prepared to employ all the workpeople in the nine, as soon as the winter sets in. The prospects have undergone to material alteration since my last report.

**Out Mine

ark with advantage.

Both the prospects and returns equal our expectations, and continue

Reconstitle.

Cast Johan's.—Two men only are employed here on tribute; the returns are small, but profitable, and the ore is generally of a good quality.

Cole's.—The water is now drawn out of the old workings, and the tributers have this day commenced working on the lode, which at present is poor; the ore is, however, sufficient to pay the cost of working, and, at the same time, it provides a good flux for the smelting-house.

cient to pay the cost of working, and, at the same time, it provides a good Hux for the smelting-house.

Quanvig.—The two men employed here are now engaged in returning the last month's produce of the new lode. We hope to be able to carry on the usual mining operations on a small scale throughout the winter.

New Lodes.—Hitherto the falls of snow have been very partial, and of short duration; and, notwithstanding the unusual boisterous weather, we nave been caabled to keep on a great deal of surface work. Another new lode has been found, a short distance from the side of the first, below the old mine, and in a most convenient situation; it is between two and three feet wide, and contains good dredgy ore. Two men are employed to explore it, by means of a level from the side of the mountain; and, from the prospects now in view, we have every reason to expect that it will immediately pay the cost of working, and ultimately be productive of profitable results. The prospects of the whole concern are very satisfactory. The workpeople are all extremely orderly and well contented, and the progress made by the works during the past summer will, I note, prove conductive to the permanent welfare of your establishment.

IMPERIAL REACHLIAN MINES.—Gold workings, from 1st Oct. to 22d Oct., 17 lbs

IMPERIAL BRAZILIAN MINES. -Gold workings, from 1st Oct. to 22d Oct., 17 lbs ozs. 11 dwts. -No letters by the packet.

IMPERIAL BRAZILIAN MINES. —Gold workings, from 1st Oct. to 22d Oct., 17 lbs 2 ozs. 11 dwts. —No letters by the packet.

NATIONAL BRAZILIAN MINES. —Cocües, Oct. 13.—On the eastern part of this layer, near the Cocües shaft, there is a large excavation made by the English in soft Jacotings; but in the western side of the layer there is hard rock; and this line of ground, at the point of measurement at surface, is 11 fms. 2 ft. north, 270 east, from the collar of Hamilton's shaft; and would, according to the run of veins of other parts of the mine, pass more than 9 fms. to the north of the Caraco old shaft; for which reason we mentioned in last report, that a cross-cut should be driven from the latter towards the north, in order to ascertain if the veins were passed below us. The lode in Hitchins's stope, in excavating westerly from Terril's winze, presents a favourable appearance, and we hope to meet with some favourable ground.

Cuaba, Oct. 27.—Although the Quebra Cunha stopes must be abandoned as soon as the rains set, we have yet the open workings, which we have taken the liberty to name after our respected director, Mr. Collett, and from whence we have commenced taking away some stone already broken up. These stopes offer great facilities for excavating upon, and removing the stone when blasted; besides the advantages of being perfectly safe in all weathers, and, from the samples spoken of in my last respects, very productive.

Produce of 10 days workings from Cocües—Montons 6 2 6 59; ditto, Cuaba, 4 3 4 44 ST. John Del. Bey Mines.

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The New Hospital, from want of carpenters to make progress, prior to the rainy season (notwithstanding my strenuous efforts to augment their number), must, I fear, remain over till the beginning of the next dry season—say, till April next; nevertheless, we have made some way towards it—vis.: a new road from the mine, completed; 22,000 adobas made and packed on the ground, under tile roofs, to protect them from the rain—each adoba weighing 32 to 36 ibs; the ground nearly levelled for the workmen; a number of pits dug, for the uprights of the roof; a water-course, of considerable length, for the supply of the hospital, completed; timber for the building, now gradually being deposited on the ground, by means of the new road.

The New Axis, for the Herring stamps, I hope also to be able to take in hand next month, after which will come, according as we can spare the mechanics, inclined planes and Goyen's carriages, at the Cachoeira sump shaft; additional analgamation barrels; new wheel, for the amalgamation house.

Reduction Report.—In this rather lengthy document, Mr. Smyth endeavours to account for the apparent high value of the ore in the past month; but it appears to me that all he says would apply with equal force to August, and yet the ore in that month averaged 40 dard of only 4 23-100ths; whilst, in Sept., it is estimated at 4 79-100ths oits, b. ton.—For Verbo, dot. 18.—Gold extracted to date, 533 oits, from 240 73-100ths; whose is abundant, and every thing proceeding satisfactorily in the mine.

9ct. 28.—Gold extracted to date, 51,335 oits., from 508 21-100ths cubic feet of sand —

news. The supply of stone is abundant, and every thing proceeding satisfactority in the mine.

Det. 28.—Gold extracted to date, 11,385 oits, from 508 21-100ths cubic feet of sand = 2.44-f0ths oits, per cubic foot. Stamps working, during 28 days, 68 16-100ths heads.—The supply of stone is abundant, and Mr. Smyth is enabled to pick it to a small extent; but as I find it far more profitable to the company to employ the women in breaking, rather than in picking, the stone, I do not permit any but the convalescent and weakly women to be engaged in picking. By this arrangement, and by sending every available hand to increase the force on the spalling floor, texpect we shall, this month, pass nearly 3800 tons of ore through the stamps —a quantity of which hitherto it was deemed impossible to stamp with our present stamping power; and, in truth, it would have been impossible, according to the old plan of spalling; but in consequence of my having greatly increased the manual force, and the spalling floor, we have now the greater part of the stone broken very small on the floor—thus doing, by hand, a portion of the work, which the stamps would otherwise have had to do, and enabling them thereby to operate on a larger quantity.

of the stone broken very small on the floor—thus doing, by hand, a portion of the work, which the stamps would otherwise have had to do, and enabling them thereby to operate on a larger quantity.

Res Pumping Engine.—Notwithstanding the most strenuous exertions to push forward this work, I fear it will take yet four or five days to get it fairly into operation, and then only for the Bahu and Gamba. The Cachoeira is not ready for it, nor are the rods, &c., necessary to connect it with that mine, yet in hand.

Western Exploration.—It is determined to resume this with vigour, by driving a level to the northward, from the point where the old champion lode was brought to an apparent end; but the ground and footway at that point being very weak, it will be necessary, before the men begin to drive, to put in some fresh timber work, which will occupy yet eight or ten days.

EAST CROWNDALE MINING COMPANY. STATE THE Annual general meeting of shareholders in this company was held at the offices, Winchester-house, Old Broad-street, on Wednesday, the 29th ult.

GEORGE THOMAS, Esq., iu the chair. Mr. Cole (the secretary), having read the notice convening the meeting, the CHAIRMAN read the minutes of the last meeting, which were confirmed, and the following are the main points of the

Mr. Cole (the secretary), having read the notice convening the meeting, and the following are the minutes of the last meeting, which were confirmed, and the following are the minutes of the last meeting, which were confirmed, and the following are the minutes of the DIRECTORS' REFORT.

The committee have much pleasure in submitting their report, at this second annual meeting, as the highly satisfactory prespects justify the anticipation of the property of th

He then read the following special report from Capt. Paull, the company's agent

He then read the following special report from Capt. Paull, the company's agent:

The ground in our engine-shaft is a close blue kills, intermixed with small branches of spar—one of these branches, 3 in. wide, contains good work for copper ore, and underlaying 1 ft. per fm., will drop into, or unite with, our main Crowndale lode, at about 90 fms. deep. The kills, through which we have sumk for a great number of fathoms, is impregnated with small branches of copper ore, clearly indicating that we are in a rich mineral country; and I do confidently expect, when we arrive in the 60 fm. level, you will be fairly and abundantly paid for your very spirited proceedings. This shaft has passed through the north lode, which has been cut in the 47 fm. level, from which we have broken a good pile of ore; although the lofe at present does not look so good as it did, I have every reason to believe that we shall make good returns from this place. You will receive a box of ore from this level, which will speak for itself. On the tin lodes, at the surface, through the whole length of the sett; and, in the present month, we have commenced a new engine-shaft in a central part of the sett, and of the old men's workings. This shaft is situated between two lodes—the north one is now in the shaft, and am proud to give you some good news from this place; it is, without the least exaggeration, worth 60t, per fm.; some that have seen it, value it at a much higher rate. I believe you may take this as a fair estimate. On the south lode, from Harris's shaft, we have a good bunch of tin going down in the bottom of this level, which we are now going to sink upon. We have now on surface upwards of 300t, worth of tin, and ground laid open, that will produce large quantities of tin, which is of no service, your having taken away. 5,000 the proposed stamps be erected; when that is done, you will have a dividend-pay. 4500 jme. In conclusion, gentlemen, I beg to congratulate you on the very striking improvement which has taken place in your mine i

The following resolutions were then passed unanimously:—That the report and accounts be approved, and adopted.—That George Lewis Hollingsworth, Esq., be re-elected as one of the members of the committee.—That George Bowness Carr, Esq., and Thomas Harrison, Esq., be elected members of the committee.—That the best thanks of the meeting be given to the chairman and committee, for their attention to the interests of the proprietors.—The meeting then separated.

SOUTH WHEAL MARIA MINING COMPANY.

At a meeting of adventurers, held at the Guildhall, Tavistock, on the 28th December, pursuant to notice, the following resolutions were unanimously passed:—1. That the minutes of the last meeting be confirmed.—2. That the purser's accounts, showing a balance of 116L against the company, having been audited, the same be approved of and passed.—3. That the captain's report having been read, the same be received and adopted.—4. That the purser be authorised to adopt the most rigid means he may think proper, to enforce the immediate payment of all calls in arrear; or to sell the shares of defaulters, through the Stannary Court of Cornwall, to pay the same.—5. That a call of 10s, per share be made, to be paid, either to the purser or into the Tavistock Bank, on or before the 15th January next.—A managing committee and auditors were then appointed.

The following report from the mining captain was then read:—

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The following report from the mining captain was then read:—

Since our last meeting, the works have regularly progressed, and the cross-cut north of the shaft is now, I think, within four fathoms of our north lode. I expected to have seen the lode before this, which would have been the case, had not our works been a little obstructed by the immediation of the late floods, which affected in a similar way every mine in our neighbourhood of the Tamar. We are again regularly at work, and I think this lode will be cut in January next. Up to the time of our meeting in August bast, we had driven 11 fathoms in the cross-cut, south of engine-shaft; shortly after which, we intersected No. I lode, south of shaft, two feet wide, underlying about two feet in a fathom north, which produced large and rich stones of copper ore. It being then ascertained that the caunter, cut so good in Wheal William's higher shaft, would run near our south end, it was decided to drive west on No. I lode, to cut this caunter, and then to drive on its course, to intersect our great south lode. To effect this, Il fathoms have been driven west on No. I south lode; but, there being some doubt as to the supply of air round a turn so pointed and lengthy, we again resumed driving south from this end, and are, I presume, about three fathoms from the caunter. This caunter, in Wheal William's higher shaft, produces good copper and lead ores. In the shoding pits, in South Maria sett, it is from two to three feet wide, possessing a very promising appearance, and containing almost every thing a miner can wish for. On reaching this caunter from our present south end, in the 30, we intend still to drive on its course, to intersect the great south and two other lodes, yet unseen; and calculate, by the soft gossan and kindly appearance of this caunter on the back, to reach the three south lodes at much less expense, and sooner, than by driving through the

Chaddock Moor.—At a two-monthly meeting of adventurers, held at Liskeard, on the 22d Dec., the accounts were examined and passed, showing—By balance from last account, 584, 11s.; call, 1204. = 1784 11s.—Labour cost for Sept. and Oct., 1104. 6s. 10s.; materials, 504. 6s. 8d. = 1604. 13s. 6d.: leaving balance in favour of adventurers, 174. 17s. 6d.—The following report was then read:—"During the last two months we have sunk the shaft nearly 4 fins.; it is now 42 fins. deep; there is no material alteration in the lode, except that the various branches into which it was split at the time of the last report are now united, and form one lode; it is, however, small, being about 10 in. or 12 in. wide, composed of peach, fluor, spar, and black and yellow ore; the ore is not sufficient to save. I said in my last report that I expected it would take five months to reach the 45 fm. level; but I am glad to find that at our present rate of sinking we shall reach it within two months from this date; the present price for sinking is 244. 10s. per fin."

Gonamena.—At a two-monthly meeting of adventurers, held at Liskeard,

present price for sinking is 24l. 10s. per fm."

GONAMENA.—At a two-monthly meeting of adventurers, held at Liskeard, on the 22d Dec., the accounts were examined and passed, showing—By ore sold, 247l. 3s. 2d.; calls, 256l.; balance from last account, 3l. 0s. 4d. —256ll. 3s. 6d.
—Labour cost for Sept. and Oct., 302l. 14s. 3d.; materials, 113l. 0s. 9d.; dues, 15l. 11s. 2d. — 46ll. 6s. 2d.: leaving balance infavour of adventurers, 44l., 17s. 4d.—A call of 1l. per share was made, and the following report read:—"The engine-shaft is sunk 8 fms. under the 45 fm. level; it is sinking for 20l. per fm., by nine men; part of the lode is come into the shaft, and we shall soon be able to sink on the course of the lode. In the east end, in the 45, the lode is 4 ft. big, composed of capel, mundic, and some ore; the end is driven to within 6 fms. of where the winze will come down, where we rose the ore above; the west end, in the 45, is in 20 fms. from shaft, and is 18 in. big, composed of capel, flookan, and spots of ore; we have not seen ore before in this level. The east end, in the 3d, is in near 60 fms. from shaft; the lode is 18 in. big, composed of capel, mundic, and ore; this end is looking very promising, with good stones of ore; the pitch in the bottom of this level (34) is looking very well, and is set for 5s. 6d. in the 1l."

GWINEAR CONSOLS.—At a meeting of shareholders, held at the offices of the

and is set for 5s. 6d. in the 11."

GWINEAR CONSOLS.—At a meeting of shareholders, held at the offices of the company, Three King's-court, Lombard-street, on Thursday, the 16th Dec.—R. R. MITCHELL, Esq., in the chair—the following statement of accounts was presented:—To cost for Sept. and Oct., 325.7.s. 2d.; engineer, 181.18s.; merchants' bills, 2011. 28.—5451.7s. 2d.—By ores sold, 2931.18s.; call on 256 shares (21.), 20th Sept., 5121.—8051. 18s.—balance loss end of Aug., 626.9s. 1d.—leaving, 1799. 8s. 11d.—showing the total balance against the company to be 3651.18s. 3d. The accounts having been examined and allowed, errors and omissions excepted, it was resolved—that a call of 21. 10s. per 1-256th share be made and collected immediately, payable either to Mr. Tredennick, at the offices of the company, or to the purser, Mr. R. Mitchell, Marazion, Cornwall; and that Mr. N. W. Tredennick's appointment as engineer be confirmed, and that he be paid the usual salary.

wall; and that Mr. N. W. Tredennick's appointment as engineer be confirmed, and that he be paid the usual salary.

West Caradon.—At a two-monthly meeting of adventurers, held at Liskeard, on the 22d Dec., the accounts were examined and passed, showing—By ores sold (less dues), 3946f. 5s. 5d.; materials, 5il. 0s. 5d. = 3997f. 5s. 10d.—Labour cost for Sept. and Oct., 2699f. 7s. 10d.; materials, 9sil. 15s. 6d. = 3680l. 3s. 4d.: leaving balance of profit, 317f. 2s. 6d.; to which add balance from last account, 1612f. 7s. 1d. = 1929f. 9s. 7d.; from which deduct dividend, 640l.; leaves balance in hand, as per cost-book, 1289f. 9s. 7d.—It having been deemed essential to take up 125 shares in the Liskeard and Caradon Railway, to get it completed, and the ores forwarded at a reduced rate, it was considered not advisable to declare a dividend, although the prospects of the mine were improving, and sales likely to increase.

WHEAL BLENOWEM—A quarterly meeting of adventurers was held at the

improving, and sales likely to increase.

WHEAL BLENCOWE—A quarterly meeting of adventurers was held at the mine, on the 21st Dec., when the accounts were examined and passed, showing—Balance from last account, 391l. 12s. 1d.; costs for Sept., Oct., and Nov., 427l. 8s. 10d.; merchants' bills, 66l. 19s. 4d. = 886l. 0s. 3d — By ores sold, 304l. 19s. 8d.; sundries, 2l. 12s.; calls, 396l. 18s. 7d. = 704l. 10s. 3d.: leaving balance against adventurers of 181l. 10s.—A call of 15s. per share was made; the purser was authorised to take legal proceedings against all persons in arrear of calls, and the following report was read:—"Immediately after the last meeting, we resumed the workings in the 30 fm. level, and had not driven more than 7 fms., when we fell in either with Blencowe lode, or a branch of it, which we prepared to open upon; but just as we commenced to do so, the heavy rains caused such an increase of water in that level, that we were obliged to suspend operations there. We then put the sumpmen to sink a winze from the 10 to the 20 fm. level, near the cross-course, and we have the lode at that place, about 2 ft. big, containing good work. The stopes throughout the mine are looking quite as well now as at the last meeting. We have now opened about 26 fms. on the cast and west lode nearest the new shaft, and throughout the whole distance it has been very regular, and produced fair work. This are looking quite as well now as at the last meeting. We have now opened about 26 fins. on the east and west lode nearest the new shaft, and throughout the whole distance it has been very regular, and produced fair work. This lode is altogether of a very promising character, and the ground around it is so favourable, that it can be driven for 18s. per fm. The underlay of this lode is about 3 ft. in a fm., and the probability is, that it will form a junction with the more northern east and west lode, at the depth of about 20 fms., where we may hope to have something valuable. We shall immediately adopt means for draining the bottom (30 fm.) level, and hope, in the course of a few days, to recommence opening on the lode, or branch, discovered there, and then proceed in our main object—that of driving, to cut the east and west lodes at that depth. The outlay required, beyond the produce from the sales of tin, which we may expect to have, will not be great, to prove the mine at that depth; and we have every reason to believe, that the result will be favourable to the shareholders."

WHEAL MAINT CONSOLS.—At a two-monthly meeting of adventurers, held at Liskeard, on the 22d Dec., the accounts were examined and passed, showing—Labour cost for two months, 13064. 16s. 3d.; materials, 5844. 6s. 4d.; dues, 73d. 18s. 10d. = 1965d. 1s. 5d.—By copper ore sold, 2544. 7s. 8d.; tin ditto, 1058d. 13s. 8d.; materials sold, 88d. 8s. 7d.; balance of last account, 1931. 12s. = 1590l. 1s. 11d.: leaving balance against adventurers of 374d. 19s. 6d.—A call of 2d per share was made, and the following report read:—"Since the last report, we have fixed flat-rods and lifts, and sunk 4 fms. on the old lode in the bottom of the 80, west of engine-shaft; the lode in the south copper lode, we have extended 26 fms. through ore ground, which we have set on tribute at 8s. and 10s. in the 1lc; the lode in the end is now large, but poor; this lode, in the 25 east, from count-house shaft, is also large

and spotted with ore. Our operations on the tm lode have been much retarded, in consequence of a great increase of water, by which means our best pitches are and have been for some time under water; but we hope to be able to resume them soon, as the whole of the water is surface water, and we are bringing in as hallow level to draw it off and prevent its going down. We have, however, sunk the shaft 6 fms. below the 35 fm. level, and extended the 35 fm. level 8 fms. west; in this end the lode is about 2 ft. wide—1 ft. of which yields good quality tinstuff; there are three pitches set in the back of this level at 4s. in the 1l. each. The 25 fm. level on this lode has been extended east 6 fms., and yields fair quality tinstuff. There are two pitches in the back of the 14, on this lode, working at 18s. 4d. Then orth lode has not yet been reached by the 70 cross-cut; nor has the tin lode been reached by the 25 cross-cut south, where we shall see it 100 fms. west of the present workings, and 9 fms. deeper; but we expect to do both in a very short time. Our sales of tin have been lessened during the last two months by the water being in at the tin lode as before mentioned; and for the same reason we cannot calculate our next month's sales with any certainty, but expect it will be 20 to 24 tons. We have increased our stamping power and other conveniences for the return of our tin; but, when we can get at the lode, shall still be raising tmstuff faster than we shall be able to stamp it. We sell about 50 tons of copper ore on the 30th inst."

WHEAL SISTERS.—At a two-monthly meeting of adventurers, held at Lisekeard, on the 22d Dec., the accounts were examined and passed, showing—By balance from last account, 18t. 2s. 7d.; copper ore sold, 720t. 9s. 8d.; call, 256t. = 994t. 12s. 8d.—Labour cost for Sept. and Oct., 749t. 17s. 1d.; materials, 177t. 6s. 11d.; dues, 43t. 8s. 2d. = 970t. 12s. 2d.: leaving balance in favour of adventurers, 24t. 0s. 1d.—A call of 1t. per share was made.—The following report was read:—"The lode i

MINING NOTABILIA.

CARWINNING HILL MINE (in the parish of Dalry, Ayrshire, Scotland) .-This mine is situated about three miles north-east of the town of Dalry, and about a mile and a half north of the Glasgow and Ayrshire line of railway, Carwinning Hill is the first and beginning of a chain of hills, on the banks of Carwinning Hill is the first and beginning of a chain of hills, on the banks of the Clyde, running parallel to the great coal and ironstone formation, extending through the counties of Ayrshire and Lanarkshire. The chain of hills, of which Carwinning is the first to merge from the ironstone formation, being separated by a range of carboniferous or mountain limestone, is composed chiefly of schistose, or clay-slate, and commonly called kills in the mining districts of Cornwall. Until the year 1842, the black and clay-band ironstone was but little known, if at all, in the extensive parish of Dalry and Kilwinning; and the farmers had been making and repairing their roads with this ironstone. Since that period, most extensive operations in the production of pig-iron has been carried on—consequently, labour became abundant, and wages, owing to the scarcity of miners, ran above the average in many parts of England; therefore, a number of Cornish miners went to Scotland—many of whom had been employed in mines in which I had an interest; and the cuatom is with Cornishane, wherever they are located, the first opportunity that offers to them, they set about an inspection of the district, one of whom, hearing of Carwinning Hill presenting features of a peculiar nature to the inhabitants, from the circumstance of the centre of the hill having the appearance of being stained with green paint, and vegetation not growing for a considerable distance, an early visit was the result. A communication was made to me, in the following words—viz.: "There is a hill, in the parish of Dalry, presenting the strongest features of a copper mine. I never saw a more kindly lode for copper in Cornwall; and I think it is worth your trouble to visit this country." I immediately started, in the middle of last June, to survey the district, and, to my astonishment, I saw the strongest indications of a copper mine I ever saw on near the surface. I at once applied to the propeitor for a lease of the land, which I obtained; and put some men to sink a the Clyde, running parallel to the great coal and ironstone formation, extending through the counties of Ayrshire and Lanarkshire. The chain of hills, of SOUTH WHEAL BETSY .- This mine is situated in the parish of Mary Tavy, Devon, adjoining that well-known lead mine, Great Wheal Betsy. The sett i

very extensive, being three quarters of a mile from north to south, and half a mile from east and west, in which is inclosed the south part of Wheal Betsy mile from east and west, in which is inclosed the south part of wheal bets sett, which has not been worked on but a few fins under the adit. There is deep adit driven from the Great Wheal Friendship Mine upwards of three quarters of a mile, in order to unwater Wheal Betsy; but, in consequence their bearing too far west, it is supposed they missed the lead lode to the sout of the slide. We have about 26 ms. to drive to cut the lead lode, and has quarters of a mile, in order to unwater Wheal Betsy; but, in consequence of their bearing too far west, it is supposed they missed the lead lode to the south of the slide. We have about 26 fins, to drive to cut the lead lode, and have every reason to expect that we shall discover a good course of lead, which will leave backs of 27, or from that to 30, fins. from the bottom of the shallow adit, where there is a good course of lead gone down, inasmuch that it was worked, so far as they could go for water, on tribute. Since we have taken up the sett, there have been four men offering to take it on tribute, with all its inconveniences. I broke, with my own hands, good stones of lead from the back of the shallow adit, some of which is now in the office of H. Vatcher, Eaq., Exeter. The lode varies in size from 2 to 4 ft. wide, great part of which is impregnated with lead, with a most splended gossan on the footwall, and a branch (or leader) of blue flookan on the hanging wall, all of which indicates strongly for lead in the deeper level. The strata is a soft blue killas, with leaders (or dropers) of white iron, spotted with lead dipping towards the lods. I call it a very kindly lode indeed, and, according to its present appearance, I should think there could be no danger (if deeper levels were opened) of its being very productive, and amply reward the adventurers for their outlay. We are also in expectation of cutting a rich copper lode farther south, towards the Great Wheal Friendship; it appears, in driving the deep adit, they expected to cut it, but in consequence of their intersecting the slide, the ground was so soft, and their main object being to unwater the above mine, that they did not go to the expense of machinery at it. Since this has been done, which is but a few years since, there is a large corrode of copper greens now to be seen in the side of the level, and the water is very powerful here, which indicates strongly that there must be a copper lode very nigh; we intend shortly to drive in search of it,

Communication Between Passengers and Guard on Railways.—A correspondent ("A. A.") calls our attention to the notice we gave, in last week's Journal, of Hunt's double whistle, and suggests that this alone would be impossible for the guard to ascertain from which carriage the sound proceeded. He recommends a fan and lamp for day and night, to be raised by a handle inside—so that, on the whistle sounding, the guard may instantly recognise the carriage from which the signal is given. It might be so arranged, that the first motion of the whistle handle should exhibit the visible signal, by withdrawing a catch, and the lamp and fan could be made to rise with a spring.

THE COST-BOOK SYSTEM.

SIR,—Noticing the decision of Vice-Chancellor Wigram, in the case of Curling v. Flight, I am induced to make an observation upon it. I have often considered the mode of transferring mine shares is very deficient and unsatisfactory, although the same is properly entered in the cost-book; but it does happen sometimes, that no acknowledgment of this transfer is sent to the vendor. With respect to rallway shares, they always issue a share certificate, and in case of transfer, the transfer deed is taken to the proper office, together with the share certificate, where the transfer is duly registered, and the deed retained at the office; and the share certificate of the same is also indorsed upon the back, as being transferred from A to B; or, as may be, with the date, by the secretary, and returned to the vendor. This mode of transfer appears to me to give a title most fully, because, upon the face of the share certificate, the name of the company is fully expressed; also, several particulars respecting it. As a mine adventurer, I have often thought this mode ought to be adopted, and I think it would be more satisfactory to adventurers generally, and also more advantageous to all concerned—therefore, I suggest the general adoption of this mode of registration by all established mining companies.

Goswell-road, Dec. 31.

As Adventurers.

PROTECTION OF MINING PROPERTY.

PROTECTION OF MINING PROPERTY.

SIR.—I had much pleasure in perusing the article in your last week's Journal, headed "Association for the Protection of Mining Property," and heartily do I wish that association all possible support. Such an association will work well, and be truly beneficial by watching the receivers—for "where there are no receivers there will be no thieves;" and I feel assured, that the respectable founders, manufacturers, and tradesmen, will cheerfully aid the association, and thereby protect themselves against the unfair underseller, who is generally a receiver, and too frequently keeps himself safe; while the encouraged thief is punished, and his family, probably innocent, brought to disgrace and ruin. I hope this good example will induce the formation of a similar institution in the east, where, if possible, it is more required than in the west, as mine plunder is greater, and detection more difficult; and while police and others are watching what is taken off the mines, let there be known honesty and talent watching what comes into the mine—"he who does not break the law need not fear the judge."—MINER: Banks of Tamar, Dec. 29.

GREAT WHEAL MARTHA—"GEOLOGICUS"—CAPT. SPARGO.

SIR,—I observe that "Geologicus" has again troubled you with a lengthy communication on the Great Wheal Martha, being, on this occasion, an attempted justification of his own views in opposition to Capt. J. Spargo's, which appeared in your Journal some time since. Your correspondent has not yet learnt the truth of the proverb—"Vir sapit qui pauca loquitur"—and given some proof of his being possessed of a little degree of prudence, by preventing another exposure of the limited range of his mental faculties. I shall not occupy your space, Sir, in going through this additional specimen of the writer's ignorance of the use and meaning of the English language, as I am quite sure that the public require no assistance in forming an opinion between the statements of "Geologicus" and Capt. Spargo. The former evidently has some interest in endeavouring to defend the late management of this mine, and, therefore, it would be a pity, to be too severe on one who is placed in so unenviable a position; he has, however, shown some little mgenuity in rendering his observations as unintelligible as possible, when he attempts to preduce proofs of his views, while, in his deductions therefrom, he succeeds in making it understood that he considers the statements of Capt. Spargo to be "erroneous," and that he (Capt. Spargo) has assumed to give "information on subjects of which he knows nothing!" I always admire those who, after long experience, and "hard labour and harder study," render themselves eminent in their profession; but I cannot but lament that there are some who, notwithstranding the very best advantages and opportunities, prove the little use they have made of them, and their inability to carry into practice what they once learnt from others. It is amusing to hear men, who write like "Geologicus," give such a description of themselves, and try to deceive the public into their views, by an account of their "knowledge of the more refined, but not less useful, branches of scienc ★ GREAT WHEAL MARTHA—"GEOLOGICUS"—CAPT. SPARGO.

BALLESWIDDEN.—At a two-monthly meeting of adventurers, held at the mine, on the 29th Dec., the accounts were examined and passed, showing—Almount for tin sold, 5521L/16s. 3d.; sundries, 38L/31s. 3d.=5559L 17s. 6d.—By abour cost, Sept. and Oct., 3838L 1s. 0d., merchants' bills, 1101L 13s. 3d.; coals, 228L 17s. 0d.; carriage, 108L 16s. 9d.; dues, 167L 6s. 6d.—leaving balance in favour of adventurers of 625L 3s. 0d., from which deduct dividend, 406L, leaves balance carried to next account of 219L 3s. 0d.—The prospects of the mine were stated to have considerably improved, especially in the 114 fm. level, where a valuable lode had been cut, and from which present appearances hold out cheering prospects to the adventurers.

EAST WHEAL ROSS.—A meeting of the adventurers in this concern took

hold out cheering prospects to the adventurers.

EAST WHEAL ROSE.—A meeting of the adventurers in this concern took place at Farquhagson's Hotel, Truro, on the 30th inst., when a dividend of 50*l*, per share was declared, and the following accounts for September and October were passed:—By balance at last account, 2995*l*, 78, 7d.; ores sold (less dues), 14,721*l*, 9s. 3d.; Cargoll adventurers for water charges, &c., 461*l*, 6s. 6d.; proportion of profit in Cargoll, 1227*l*, 10s. 4d.; sale of flour, delivery, &c., 59*l*, 0s. 8d. =18,764*l*, 5s. 4d.—Costs, coal, and merchants' bills, 801.7*l*, 3s. 6d.; taxes, and Stannary Court dues, 166*l*, 11s. 5d.; discount on ore bills, 29*l*, 19s. 10d.; loss on sale of flour and rye, 1122*l*, 9s. 9d.; dividend of 50*l*, per share, 6400*l*,=16,736*l*, 4s. 6d.—Balance in favour of adventurers, 3028*l*, 0s. 10d.

North Pool.—A meeting of adventurers took place at the mine, on Tuesday last, when the following accounts were passed, and a dividend of 2l. 10s. per share declared:—By balance at last account, 540l. 13s. 1d.; ores sold (less dues), 3428l. 3s. 6d. = 3968l. 16s. 7d.—To costs, &c., for Sept. and Oct., including steam-whim and boiler, 2238l. 12s. 10d.; dividend of 12l. 10s. per share, 1250l. = 3488l. 12s. 10d.—Balance in hand, 480l. 3s. 9d.

Santiago de Chile papers to the 2d of October have been received; they announce, besides other projects of law, one which imposes the contribution of one real for every marco of silver, whether in coin or in bars, extracted from the departments of Copiapo and Vallenar, received by any of the entrances, whether by sea or by land, from the province of Atacama. Half of the impost would be exacted for 10 years only. The other half will be permanent, and is intended to meet the expense of the mineral police—the former being designed for the construction of a hospital at Copiapo, and for the endowment of the Vallenar, in the admission to both which a preference will be shown to be been constructed with the business of the mines. The product of each will be made applicable to the revenue of its department respectively.

On Christmas-day, M. Talabot, one of the directors of the Marseilles to Avignon Railway, and some other gentlemen connected with the undertaking, made an experimental trip from Marseilles, through the tunnel of the Nerthe and St. Louis, and across the valley of the Aigalades to Arles. Everything passed off vary satisfactorily, in the presence of a considerable number of spectators assembled along the line.

The Surrey Standard says, it would be possible, if it were desired, to go from Paris to Dieppe in three hours. First-class steamers would cross the Channel from Dieppe to Brighton or Newhaven in four and a half hours. From thence to London, one hour would suffice. To travel the distance which separates the coast from the capital of England, one hour—total, eight and a half hours.

Girrar Western Ramway—New "Monster Engines," it is stated, that orders have been issued by the Great Western Company, for the manufacture of 16 additional eight wheeled engines, of the class to which the Fron Duke belongs. We believe that these engines will, however, be five or six tons lighter than the Fron Duke, which, we are informed, on good authority, weighs upwards of 36 tons when in working order.—Railway Record.

CRIMPLE VIADUCT—HARROGATE BEARCH OF THE YORK AND NORTH MID-LAND RAILWAY.—The closing of the last arch of this stupendous work was performed on Thursday, the 23d of December, amidst the cheers of the work-men, and in the presence of Messus. Fairvell and Sykes, the contractors. An idea of the extent of this viaduct may be formed from its dimensions. It is 1848 ft. long, 142 ft. high, and consists of 31 arches, each 50 ft. span. The short space of 20 months, an unparalleled amount of masonry, consisting of those massive piers and lofty arches, has been put together, under the superin-tendence of John Cass Birkinshaw, Esq., engineer to the York and North Mid-land Railway Company, and his assistant, Arthur Thackeray, Esq., of Harrogate. CALEDONIAN HALWAY.—We have been informed, on what we consider good authority, that Thursday, the 20th of January, is fixed for the opening of this important undertaking for general traffic.—Caledonian Mercury. GREAT WESTERN RAILWAY.—Understand Thapfic.—During the Christmas week, the Great Western Company carried 28,000 parcels. The receipts for paragrages at the Paddington station, on Friday, Dec. 24, amounted to 1850. North Western Railway.—The directors of this railway announce that the calls have been so well met, that they will be enabled to press on the works with vigour, without calling upon the shareholders before March next. The directors are negociating with the Midland Company for the purpose of ef-fecting an arrangement for working the new railway when it is finished. CRIMPLE VIADUCT—HARROGATE BRANCH OF THE YORK AND NORTH MID-

Current Prices of Stocks, Shares, & Metals.

STOCK EXCHANGE, Salurday morning, Eleven o'clock Bank Stock, 9 per Cent., 186 7 3 5 per Cent. Reduced Ann., 85 4 4 5 per Cent. Consols Ann., 85 4 5 per Cent. Annutites. — 3 per Cent. Annutites. — 3 per Cent. Annutites, 8 6 1 long Annutites, 8 6 1 long Annutites, 8 6 per Cent. Consols for Opg, 85 6 5 per Cent. Consols for Opg, 85 6 5 Exchequer Bills, 10007. 3d., 9 12 pm. NGE, Salurday morning, Eleven o' Belgian Bonds, 45 per Cent., 88‡ Dutch. 2‡ per Cent., 55‡ 5 Brazilian, 5 per Cents, 80‡ Chilian, 5 per Cents., 88 Mexican, 5 per Cents., 18‡ Spanish, 5 per Cents., 18‡ 4 Ditto 3 per Cents., 30‡ 3 Portuguese, 4 per Cents., 23 ‡ Russian, 5 per Cents., 127

MINES.—The business of the week appears to have been confined principally to the completion of previous sales or contracts. Perhaps, at no ason of the year, does holidays interfere so much with, or influence, the stock and share market, as the present period. Notwithstanding the absence of actual business, we find confidence restored-money more abundant-and a manifest desire to advance the interests of legitimate mining. We, therefore, anticipate the year 1848 will prove a memorable era; and, We, therefore, anticipate the year 1848 will prove a memorable era; and, as we are the only organ or representative of this section of our national wealth and industry, we are fully determined to expose its abuses, and, at the same time, to exert our humble efforts in advancing its honourable and legitimate pursuit. To the active and speculating—to the cautious and investigating—we would recommend a careful perusal of an article on "Mining during the Year," in our present Number, and we feel assured, that whilst every encouragement is afforded for investment and speculation, the cautious and timid have advice for avoiding a reckless or too heats an outley of capital.

specialistics, the cautious and think involutive to a votating a received sto hasty an outlay of capital.

Shares in the following mines have been done this week—viz.: Devon Great Consols, Trelawney, Trehane, Herodsfoot, Condurrow, Mary Ann, Carwinning, Plymouth Wheal Yooland, Franco, &c.

We hear that Carwinning Hill shares have been in demand during the week; and business in them was done, yesterday, at an advanced premise. But little business appeared to have been transacted in foreign shares during the week—a few Bolanos, Imperial Brazilian, and Australians, have been done.

Letters have been received from the Alten Mines, which represent the works to be in a very satisfactory position.

works to be in a very satisfactory position.

Despatches by the Brazilian packet, Crane, have been received by the St. John del Rey Company, up to the 28th of Oct. The accounts furnish a decided improvement in the mines, showing a profit of 2142l. for the month of September. In addition to the arrival of specie previously announced, we find a box of gold from Sierra Leone, ex Pearl, and by the Princess Royal, from Hamburgh, three casks of gold, consigned to order; and since our last, per the Royal Mail Steam-Packet Company's ship, Trent, arrived at Southampton on the 27th from the West Indies, \$17,000, and 1970l. in silver bars. and 1970l, in silver bars.

RAILWAYS.—On Monday and Tuesday the railway share market was somewhat firmer than at the close of last week; and a little more business was doing. On Wednesday, prices were, again, not so firm, and the market generally dull. On Thursday, things took a decided change for the worse; and remained in a very dull state until the close of the mar-

MERTINGS.—EDINICIBGH AND GRANTON: special; to consider amalgamation with Edinburgh and Northern—decided in affirmative.—Debrusher, Staffordsher, and Wordesterreburge: first ordinary meeting; the directors' report was referred to the auditors, and an adjourned meeting to take place, to lay the same before the directors.—Barradous: special meeting; it was decided to suspend operations until the present monetary pressure had ceased. It appeared that the entire expenditure had been 82164. 98. 6d.; and the balance, 2484. 3s. 3d.

HULL, THURSDAY.—There is no change in the character of the market, which remains without animation. Transactions are, if possible, more limited than ever, in consequence of the holidays. The new year, we trust, will bring an improvement in prices.

RAILWAY TRAFFIC RETURNS

Name of Railway.	Rway.	tual cost.	pershare	Div.	1847	1846
Arbroath and Forfar	- 15	£179,939	26	4 p.c.	£ 137	127
Chester and Birkenhead	15	706,793	38	-	680	480
Dublin and Drogheda	35	733,655	531	31	707	609
Dublin and Kingstown	71	473,282	-	7	613	550
Dundee, Perth, and Aberdeen		285,745	30	6	641	190
East Lancashire	24	1,207,490	21	1000	830	613
Eastern Counties	2021	7,698,370	15#	3	12555	9754
Rastern Union	439	979,926	45		1110	426
Edinburgh and Glasgow	50	2,375,745	43	6	3260	3039
Edinburgh and Northern	29	953,207	164	-	581	-
Glasgew, Paisley, and Ayr	601	1,890,547	120#	7	2005	1905
Glasgow, Paisley, & Greenock	22	838,964	188	3	922	734
Gt. Southern & Western, Ireland	1101	1,876,326	21	-	1990	1125
Great Western	240	10,630,763	94	8	21367	17366
Kendal and Windermere	104	147,001	23	-	100	-
Lancaster and Carlisle	70	1,291,913	54	-	1129	-
Lancashire and Yorkshire	921	6,807,314	76	7	8698	8143
London and North Western	428	20,010,467	148	9	40386	36582
London and Blackwall	4	1,146,289	47	7	722	644
London, Brighton, & South Coast	147	5,659,180	42	4	8057	6004
London and South-Western	186	5,836,132	52	9	8604	5074
Londonderry and Enniskillen	144	160,013	244	0.000	108	
Manchester, Sheffield, & Lincolnsh.	491	2,078,135	80	5	1998	1648
Maryport and Carlisle	28	424,417		3	494	452
Midland Company	382	8,658,604	109	7	22976	17929
Midland Great Western (Irish)	261	583,776	-	1000	754	-
Newcastle and Carlisle	65	1,184,080	117	6	1698	1278
Norfolk	704	1,375,633	78-9	6	2159	1264
North British	78	2,514,150	242	5	2090	1095
Shrewsbury and Chester	17	591,158	213	1000	527	240
South Devon	29	1,339,860	22-3		767	287
South-Eastern	1574	6,398,218	291	6	7754	6362
Caff Vale	38	785,607		51	1646	1251
Ulster	25	646,211	52	6	653	680
Whitehaven Junction	12	130,000		43	185	-
rork, Newcastle, & Berwick	2364	3,685,102	331	9	12327	3003
Fork and North Midlend	196	3,196,869	721	10	7908	5142

Amiens to Abbeville	28	573,338	-	. 4	1 1075	1 -
Antwerp to Ghent (three weeks)	31			-	1100	-
Belgian	-		1	-	54312	51826
Dutch Rhenish	571		24	-	-	-
Northern of France	211	2,000,000	112	4	12795	7763
Orleans to Bourges (Central)	70		_	-	2544	-
Orleans to Tours	72	600,000		5	3663	2286
Paris and Orleans		2.011.720	461	121	8370	6369
Paris and Ronen	85	2,082,916	343	94	5875	5380
Rouen and Harte	594		- 19	4	2296	-
Strasburgh and Basle (monthly)	88		8	14	6932	8392
West Flanders (ditto)	_		16	-	1381	1

Total earnings for last week, £157,706, being an increase of £24,406 over last year.

RAILWAY TRAFFIC FOR 1847.—It appears that the truffic on railways, in the United Kingdom, during the year 1847, amounts to about 8,950,0001.being an increase over that of the preceding year of 1,285,000L, or nearly 17 per cent.—The aggregate length of railway over which the traffic was conveyed, in the first month of 1847, was about 2710 miles; and, in the last month of that year, about 3420 miles. Taking the average length of railway for the year at 3100 miles, it would give 2887L as the average traffic per mile per ann.

RAILWAY CALLS FOR JANUARY .- The amount called up during the present month amounts to 4,677,075L, the proportion on foreign lines being 211,590L -being 1,500,000L, below that of January last, and is less than might, from ecent signs, have been anticipated; it is still, however, 1,360,500L above the

monthly average of 1847.

RAHLWAYS OPENED IN 1847.—The following is a list of the railways opened in 1847:—Aberdeen, 20 miles; Birkenhead, Lancashire, and Cheshire, \(\frac{3}{2}\) of a mile; Caledonian, 40 miles; Cockermouth and Workington, \(\frac{3}{2}\) miles; Dublin and Drogheda (Howth branch), \(\frac{3}{2}\) miles; Dundee, Perth, and Aberdeen Junction, 20\(\frac{1}{2}\) miles; Edinburgh and Glasgow, 5 miles; Edinburgh and Northern, 29 miles; Eastern Counties, 26\(\frac{1}{2}\) miles; Eastern Union, 34 miles; Glasgow and Ayr, 13 miles; Great Southern and Western, 56\(\frac{1}{2}\) miles; Great Western, 35\(\text{miles}\); London and Yorkshire, 1\(\frac{1}{2}\) miles; London and Windermere, 10\(\frac{1}{2}\) miles; London and North-Western, 50\(\text{ miles}\); London, Brighton, and South-Coast, 39\(\frac{1}{2}\) miles; London and South-Western, 83\(\text{ miles}\); Manchester, Sheffield, and Lincolnshire, 2\(\text{ miles}\); Milland Great Western (Irish), 36\(\text{ miles}\); Norfolk, 23\(\text{ miles}\); Sindewsbury and Chester, 6\(\text{ miles}\); South-Eastern, 15\(\text{ miles}\); South Devon, 8\(\frac{1}{2}\) miles; Taff Vale (Aberdare line), 10\(\text{ miles}\); Whitehaven Junction, 12\(\text{ miles}\); York, Newcastle and Berwick, 72\(\text{ miles}\); and the York and North Midland, 48\(\text{ miles}\); To aggregate length of new railway opened for traffic, in the United Kingdom, during the year 1847, appears to be 750\(\text{ miles}\)—of which 516\(\text{ miles are in England, 127\(\text{ miles}\) in Scotland, and 108\(\text{ miles}\) in Irgland. It is estimated that there are now about 150\(\text{ miles}\) of railway, independent of the above, nearly ready to open for traffic. These companies have called up about 22,330,000\(\text{.}\) during the year 1847.

LATEST CURRENT PRICES OF METALS.

	July 2 1 Harrison July 1		DAVADOA	2 40	u V	DELDINE DE, 1041.		TE DE		
	Inon Bar a., Wales ton	£	8. £			Corren-Ord, bottoms	£	8. 4	8.	12
	London	8				YELLOW METALSHEATHING	0	0-	0 0	91
	Nail rods	0	0-9			Tin-Com. blocksg cut.	0	0	4 2	0
	Hoop(Staf.),	10	10-10	15	0	bars	0	0-	4 3	0
	Sheet	0	0-11	10	0	Refined	0	0-		0
	Bars 11 11	0	0-10	0	0	Straitsh	3	18-	4 0	0
	Welsh cold-blast?	- 4	0-4	10		Banca	0	0	4 4	- 0
	foundry pig 5					TIN-ILAIRA-CH., ICI, OOK		0-		0
	Scotch pig b, Clyde						0	0-		
	Rails, average					Coke, IC	1	3-1		0
	Chairs	0	0 - 4				1	9 1		- 8
	Russian, CCNDe	0	0			LEAD-Sheet k ton	0	0-15		
	" PSI	0	0			Pig, refined	0	3-15		
1	" Gourieff	0	0			" common	0	0-17	10	
1	" Archangel			10	0	" Spanish, in bd.	0	0-17		0
	Swedish d,on the spot	0	0-11	5	0	Red	0	0-1		
•	" Steel, fagt.		0-16	0	0	Dry White	0.	0-2		
	COPPER-Tile, ,, kegse	0			0			0-20		
	COPPER—Tile/	0	0-97			SPELTER-(Cake) on spot		19-30	0	0
	Tough cake Best selected		0-98		0	, for arrival		0-11		
			0 101		0	ZINC -(Sheet) m export.*				0
1	Ordin. sheets, lb	-	200			QUICKSILVER n 1b.		0 (ъ. е	
	a Discount 21 per cent.		b Ne	t ca	sh.	c Discount 21 per ce	nt.	419.00	d D	itto
	e In kegs & and &-inch.	11	Discount	31	er	cent. g Ditto 21 per cent		h N	et c	ash
	in bond. i Discou	nt 3	per cer	nt.	Ų,	& Ditto 21 per cent.		I Ne	et ca	sh.
	m Discount 11 per cent.	99	Discou	nt l	d P	er cent. * For home use it	8 3	2/. per	r tor	l.

[FROM OUR CORRESPONDENTS.]

IRON.—Dullness still exists in all descriptions, and further decline of prices is expected —the demand for exports very limited.

COPPER, TIN, TIN-PLATES, and LEAD, may be reported precisely as in last week's Missianal Specific is somewhat firmer, the quotations being 20t. on the spot, and for its lost.

GLASGOW, TRUBBDAY.—The business in pig-iron this week, as might be expected from this season of the year, has been very small. There have been one of two cheap sales, made by parties wanting immediate cash; but this has not affected the general price for eash against bill of lading, which, to-day, may be quoted at 46s. 6d, to 47s., for mixed numbers. A slight reduction is looked for next week—2000 tons having to be sold for eash. The stock in makers' hands, and in the yards, which at the end of last year was estimated at 140,000 tons, is now roughly calculated at 30,000 tons.

sold for cash. Ine stock in makers indus, and in the yards, when as the cash of year was estimated at 140,000 tons. In own roughly calculated at 30,000 tons.

THE IRON TRADE.—We regret to state that our intelligence from the iron district is in the highest degree unsatisfactory. Pig-iron, which was sold last quarter for 41. 15s., is now being offered at 31. 10s., per ton; and it is generally understood that at the ensuing quarter-day a reduction of 21. per ton will be declared. As we have already announced, various meetings of coal and ironmasters have been held, at which a very considerable reduction of the workmen's wages was resolved upon, and notice given at the various works to that effect. The men employed at Banks' Iron-Works, near Bilston, have, we understand, reduced to the reduction, and have turned out. The other notices have not yet expired, but there is reason to believe that the men, in various parts of the district, will submit to the unhappy circumstances which the ironmasters have sought to defer as long as possible. We are also sorry to state, that some compositions in the trade have taken place. Last jevening (Wednesday) a numerous meeting of the creditors of Sharp, Brown, Burgess, and Morris, engaged in the iron and wire trade, was held at the Union Inn, in this town; there being present, amongst others, Mr. Foster, Mossirs, Braumer, Barrows, and Hall, Mr. Evers, Mr. Robinson, of Dudley, &c. Mr. Colls, solicitor, of Stourbridge, was in attendance for the principal creditors residing at Stourbridge, Brierly Hill, Dudley, &c. Mr. M. Stockes, of Halfifax, attended on behalf of a bank of that place. It appeared, from the balance-sheet, that the bankrupt's debts amounted to 13,000, of which 5000, is due to the Halfifax Bank, for which, however, they hold security to the extent of 3000, their claim being thus reduced to 4000. The amount due to Brailey and Co. is 7600, the tother balance-sheet, that the bankrupt's debts amounted to 18,000, of which 5000, is due to the Halfifax Bank, for which, howe

\$\\ \text{Sim} \\ \text{10} \\

1,80 5,00 2,70 0,00

CURRENT PRICE OF GOLD AND SILEE.

Foreign gold, in bars ... per oz. £3 17 9 New dollars ... per oz. £0 4 91

"Portugal pieces... 0 0 0 Silver in bars (standard) ... 0 4 112

THAMES TUNNEL COMPANY.

The number of passengers who passed through the Tunnel in the week ending Dec. 25, was 16,314; amount of money, £67 19a. 6d.

PRICE OF MATERIALS,

DESCRIPTION	SEPT.	Oct.
Coal, carriage included	15s. 6d	15s. 6d. per ton.
Timber, balk	1 1	1 1 per foot.
. pine	1 4	Per roots
Iron, common	9 6	9 6 per cwt.
Steel	42 0	· Per ener
Nails, 5-inch patent	16 6	***
		. ,,
		- "
Ditto, 4 ditto	17 3	- 93
Ditto, 31 ditto	17 8	
Lead, sheet	*****	25 0
Ditto, red		26 0 ,,
Tallow	50 0	
Candles, London	5 10	5 10 per doz.
Powder	38 0	38 0 per cwt.
Hilts	1 4	1 4 per doz.
	30 0	- per cwt.
Cans	4 9	- per dox.
Safety fuse	0 4	0 4 per coll.
Washing tubs		o outcome
	15 6	- per cwt.
	12 0	- per mil.
Laths	1 6	 per bundl
Whim kibbles	19 0	- per cwt.

COAL MARKET, LONDON.

PAICE OF COALS PER TOW AT THE CLOSE OF THE MARKET.

MONDAY.—Buddle's West Hartley 22—Carr's Hartley 22—New Pelton 18—Ord's Redheugh 20 6—Wall's End Elm Park 23 6—Gosforth 23 9—Hedley 23 6—Hilda 23 6—Northamberland 22 6—Eden Main 24—Belmont 24—Bradayl's Hetton 24 6—Hetton 24 6—Lambton 24 6—Leasingthorne 24—Russell's Hetton 24 6—Hudson's Hartlepool 24—Adelaide Tees 24 3—Cowndon Tees 23 6—Seymont Tees 24—Tees 24 6—West Hetton 23 6—Whitwell 21.—Ships at market, 37; sold, 31.

WEDNESDAY.—Carr's Hartley 23—New Tanfield 18 6—Ord's Redheugh 20 6—Pontop Windsor 17 6—South Peareth 18—Tanfield Moor 19—Wall's End Bewicke and Co. 24—Northumberland 23 6—Washington 23—Bell 24 3—Braddyll's Hetton 24 6—East Hetton 23 6—Haswell 25—Hetton 25—Stewart's 25—Whitwell 243—Hudson's Hartlepool 24 6—High Thornley 21 to 21 6—South Kelloe 24—Adelaide 24 3—Denison 22—Seymont Tees 24—South Durham 24—Tees 24 9—Tees Hetton 23 6—West Hetton 23 6—West Easten 25—Ships at market, 68.

Killingworth 23.—Ships at market, 68.

FRIDAY.—New Tanfield 18—Anthracite 28—Bywater Silkstone 20—Derwentwater

FRIDAY.—New Tanfield 18—Anthractic 28—Bywater Silkstone 20—Derwen Hartley 22 6—Wall's End Belmont 24 3—Haswell 25—Richardson's Tees 22—Tee on 20 6—Ships at market, 42; sold, 25

	JOINT-STOCK	154	ANKS.		
Shares.		Paid		cent.	Price.
22,500	Australasia	£40	£		£16
20,000	British North American	5.0	5		441
20,000	Colonial	25	5	******	143
-	Commercial of London	. 20	6	*******	22 23
4,000	Ionian State	25	6		241 25
60,000	London Joint-Stock	10	6		15
	London and Westminster		6	** ** ** **	234
10,000	National Provincial of England		5		
20,000	National of Ireland	22	5		191 191
20,000	Provincial of Ireland	25	8		40 42
4,000	Ditto New	10	8	*******	191
20,000	Union of Australia	25	6		24 25
10,000	Ditto New	24	6	*******	21 21
60.000	Union of London	16	5		109

GAS-LIGHT AND COKE COMPANIES.

Companies.	Paid.	Div. p.	cent.	Price.
British (London)	£18	£	*	£171
Ditto (country)	19	12	*	224
Equitable	50	2	1	_ 38
Gas-Light and Coke Chartered Co				
Ditto New	10	6		11 111-0
General United Gas-Light Company				
London				
	British (London) Ditto (country) City of London Ditto New Equitable European Gas-Light and Coke Chartered Co. Ditto New Inperial Ditto Debentures Imperial Continental Ditto Debentures Imperial Continental Ditto Debentures Lindependent London Ditto Oscoria	British (London)	British (London)	British (London)

Those marked with an asterisk (*) are dividend per share.

PRICES OF MINING SHARES.

BRITISH MINES.	BRITISH MINES—continued.	SDA N
Shares. Company. Paid. Price. 1000 Abergwessin 7 10 512 Albert Consols 1 24	256 Sth. Friendsh. Wh. Ann 16 25	the
1024 Alfred Censols 41 30	200 South Harvannah 10 25 256 South Tolgus 71 40	
235 Andrew and Nangiles 284 114	256 South Treiswney 20 81 128 South Yeoland 161 20 128 South Wheal Basset 110 85	R
10000 Ayrshire Iron Cempany 5 . 12 1624 Balleswidden 9 18 128 Balnoon Consols 25 25		long Tyni
10000 Banwen Iron Co 2	124 South Wh. Fraucis 160 200 256 South Wh. Hope	as th
4000 Barrissown 4000 Betford 24 34-2 128 Besore Lead Mine 14 10 315 Birch Tor Tin Mine 244		D
315 Birch Tor Tin Mine 24} — 8000 Blaenavon 50 23	256 South Wh. Sophia	10
8000 Blaenavon 50 23 100 Botallack 175 80 120 Brewer 5 7	280 Spearne Moor	-13
10000 British Iron, New, regis, 10 124	256 St. Austell Consols 9 10 94 St. Ives Consols 320 128 St. Michael Penkivel 5 104 1000 Stray Park 43 20-2	Pent
128 Budnick Consols 524 40	9600 Tamar Consols 3 4 1024 Tavy Consols 4 9-10 6000 Tineroft 7 8	Pen-
100 Bwich Cwmerfin 20		Wes
128 Callestock	128 Tokenbury 43½ 10 256 Trehane 2 27 5000 Trelaigh Consols 6 3½ 2000 Trenance 2 50 96 Tressvean 10 550	Jam
256 Caradon Copper Mine 94 1 256 Caradon Mines 224 17 256 Caradon United 24 5	5000 Treleigh Consols 6 31	Belg From
256 Caradon Wii, Hooper 21 12	96 Tresavean 10 250 120 Trethellan 5 . 16	Bagi
1000 Carn Brea 15 102g	120 Treviskey and Barrier 130 130	East
112 Charlestown 220 30 166 Cleveland 9 5	128 Trewellard	East
512 Coatlithe Hill 2 1900 Combinariii 71 3	256 Wellington Mines · · · · 15 · · 30 128 West Basset · · · · · · 45 · · 30	01
128 Comfort 45 90	256 West Caradon 20 120	Cair
256 Condurrow 20 34 2560 Cook's Kitchen 14 2	512 West Fowey Consols 40 15 256 West Providence 9 25	3.7
2048 Coombe Tin Mine 41. 2 1000 Coombe Valley Quarry 2 3	200 West Seton 40 . 150	Here
1000 Copper Bettom 1 1024 Cosheen	- West of Scotland IronCo. 210 210 120 West Trethellan	10
128 Creeg Braws 120 100	3845 West Wheal Jewel 11 11	Calli
500 Cubert Mine 121 15 2048 Dartmoor Consols 2 2 300 D.Prior & Buckfastleigh 14 26	2560 West Wh. Maria 21 11 2560 West Wheal Rough Tor 4 2	
	256 West Wheal Tolgus 214 5	Dral
7100 Derwent	5200 Wicklow Copper 5 11	15.17
1000 Dhurode 2 5 186 Dolcoath 30 50	184 Wheal Adams 51 10 1000 Wheal Agar 10	St.
2560 Drake Walls 4 · · 4	256 Wheal Albert 10 8 128 Wheal Acland 13 . 2	Wh.
3000 Dyfngwm 10 124 256 East Alvenney 10 25 112 East Caradon 42 42	256 Wheal Allen 2 5 237 Wheal Anderton 18 25	-
112 East Caradon 42 42 2048 East Crowndale 44 34	128 Wheal Ann	
512 East Combe Silver-Lead 64 64	512 Wheal Anna Maria 5 1021 Wheal Ash 4½ 8 120 Wheal Bal 5½ 20 9560 Wheal Raybova 11 425	
128 East Pool	120 Wheal Bal	77
— East Wheal Albert 1 3 94 East Wheal Crofty280 125 256 East Wheal Fortune 2 3	256 Wheal Blencowe 21 15 256 Wheal Bucketts 20 5	Cobr
128 East Wheal Rose 50 1200 2048 East Wh. Rough Tor 2 2 — East of Scotland Iron Co. 2 2	256 Wheal Cafstock 3 4 136 Wheal Clifford 190 190	
	1024 Wheal Coad	
256 Elborough 14 2 256 Exmoor Wh. Eliza 34 6 512 Fowey Consols 40 45 6400 Gadair 2 2 20000 Galvanised Iron Co. 10 94	6000 Wheal Curtis 2½ 3-3½ 256 Wheal Dyke 12 13	= V
6400 Gadair 2 2	512 Wheal Fortune Consuls 34 64	= 17
10000 Gen.Mining Co.for Irel. 2 14 2048 Georgia Tin Mines 14 12 256 Gonamenn 31 45 128 Geonyrea 4 12 244 Grambler & St. Aubyn 10 100 1	2048 Wheal Frederick 2 2 388 Wheal Franco 27 28	0.7
256 Gonamena 31 . 45 128 Goonvrea 4 . 1	128 Wheal Harriet 45 50 256 Wheal Jane 21 15	Cuba
2444Grambfer & St. Aubyn — . 10 100 Great Consols	256 Wheal Louisa	1115
100 Great Consols 1000 400 256 Great Callestick Moors 22 25 2560 Great Michell Consols 14 34	256 Wheal Mary Councils 28 05	Knoo
256 Great Resugga Moor 7 10 512 Gt.Wh.Rough Tor Con. 134 25	210 Wheal Prospect 4 7 120 Wheal Reeth 27 80 128 Wheal Rose 60 45	110
256 Gwinear Consols 7 20	2048 Wheat Samson 2 20	100 100
1000 HarrowbarrowOld Mine 81 2 6000 Heignston Down Con. 1 21	99 Wheal Seton	Cobr
256 Herodsfoot 16 181	256 Wheal Sophia 5 10 128 Wheal Spearne 10 75 128 Wheal St. Ann 9 15	Cuba
19090 Hibernian 121 12 239 Hobb's Hill 6 3	260 Wheal Trelawney 72 90 256 Wh.Tremaine(St.Ervan) 41 20	Burr
4000 Holmbush 19 11 827 Kirkeudbrightshire 5\(\frac{1}{4}\). 6 2048 Lambergoe Wh. Mariu 11 4	256 Wheal Tremayne 35 25 128 Wheal Trew 20 21	Holy Kilds
128 Lelant Consols 90 60		- 23
160 Levant	92 Wheal Tryphena	503
3600 Llynvi Iron 50 50 256 Lostwithiel Consols 15 15	184 Wheal Vyvyan	111
6000 Marke Valley 10 3 5000 Mendip Hills 2\frac{1}{3} 1\frac{1}{4}	allien	-11
obou merionethshire State (14. 9	FOREIGN MINES.	i ii
20000 Mining Co. of Ireland 7 61 256 New East Crowndale 32 31	15000 Astarian Mining Co 11 5 20000 Australian	Co
128 North Fowey Consols., 30 30 100 North Pool	10000 Anglo-Mexican Co100 2 12374 Ditto Subscription 25 22	88, d 56, d
70 North Roskear 104 310 256 North Wh. Abraham 1 1	6000 Barossa Range 2 24 3000 Bolanos 150 34	Chili —To
70 North Roskear 10½ 310 256 North Wh. Abraham 1 1 262 North Wh. Leisure 1½ 2 128 North Wh. Providence 2½ 3	2000 Ditto Scrip 15 34 12000 Brazillan Imperial 23 5	5/18
19000 Northern Coal Co 23 . 2	10000 Cobre Copper Co 40 18 8500 Colombian Co. regis	
128 Par Consols990 1000 4000 Pennant	5000 Copiapo Mining Co 14 24	Unite
12 22 25 26 26 27 27 27 27 27 27	10000 General Mining Ass'n. 20 . 14 5000 Kinzigthal Mining Ass. 2 . 24	-20
512 Plymouth Wh. Yeoland 44. 20 256 Polsaith Consols 44. 7	5000 Kinzigthal Mining Ass. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	1.00
10000 Rhymney Iron 50 20	5000 Mocaubas & Cocaes · · 30 · · 6 29320 { Rl.del Monte, regis. } 28\frac{1}{2} · · · 1\frac{1}{2}	, latin
10000 Ditto New 7 6 2 256 Rose Consols 10 2 1000 Rosewall Hill 1 5	Ditto Red Debentures — 10	-0
256 Rosewarva Mines — 12 — Shotts Iron Company 50 55	Ditto Loan Notes 150 60	,615
2500 Silver Valley 5 2 1100 South Dolcoath 3 24	2000 Pachuca Mines 4 4 1 11000 St. John del Rey 15 6 1 13174 United Mexican Av. 28 1 1 1 - 2	Just
128 South Caradon 10 450		1016
SOUTH AUSTRALIA	N SHARE MARKET.	

| Shares | Company | Paid | Price | 2000 Adelaide | 25 | 71 | 2464 | Burra Burra | 5 | 110 | 15 | 28 | 2664 | Burra Burra | 15 | 28 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2864 | 2

m-our object being, to present as accurate a list of prices as can

MISCELLANEOUS COMPANIES.

1,000 Assam Tea Complany	Shares.	Companies.		p. cent.	Pric	e. ,
1,080 Anction Mart	10,000	Assam Tea Company	£20 .	 	£ 3	
10,000 Anstralian Trust. 35 30	1,080	Auction Mart		 € ‡	28	
10,000 Australian Trust 35 30	10,000	Australian Agricultural	. 30	 1	. 20	
10,000 British American Land 35			35 .			
8,600 British Rock and Patent Salt 35 18 11 8,915 Canada 32 6 30 — City Bonds (Navigation) 37 3 6 30 — City Bonds (Navigation) 37 3 1 2 26 1,300 Corn Exchange 37 1 1 2 26 1,300 Corn Exchange 37 1 1 2 26 1,000 Drivitwich Patent Salt 25 2 1 11 2,700 Equitable Reversionary press 100 5 100 0,000 General Reversionary Interest 100 1 2 23 0,000 General Reversionary Interest 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	8,000	British Alkali	25	 4	161	191
8,600 British Rock and Patent Salt 35 18 11 8,915 Canada 32½ 6 30 — City Bonds (Navigation) — 34 89 1,800 Corn Exchange 37½ 14 264 5,000 Droitwich Patent Salt 25 4 11 2,700 Equitable Reversionary Type 100 5 100 0,000 General Reversionary Netrest 100 5 100 0,000 General Reversionary Netrest 100 5 100 0,000 General Reversionary Notes 100 120 2,100 Hungerford Market 100 4 213 1,500 London Reversionary Notes 100 14 31 31 31 31 31 31 31 31 31 31 31 31 31	10,000	British American Land	351.	 	14	
8,915 Canada 32½ 6 30 — City Bonds (Navigation) — 3½ 89 1,800 Corn Exchange 37½ 1½ 26½ 5,000 Droitwich Patient Salt 25½ 2m 11 2,700 Equitable Reversionary 95 4½ 90 — General Reversionary 100 5 100 5 0,000 General Reversionary 100 5 100 23 24 2,100 Hungerford Market 10 2 30 24 2,100 Hungerford Market 100 4 3 34 8,000 London Reversionary 22 — 23 24 1,500 Margate Pier 10 196 196 30 20,000 New Brunswick 75 — 3½ 4 4,500 Ditto 40 4 97 58½ 4,500 Ditto 40 4½ 97 58½ 4,500 Ditto 40 4½ 97 58½ 4,500 South Australlar 25 </td <td></td> <td></td> <td></td> <td> 18</td> <td>11</td> <td></td>				 18	11	
City Bonds (Navigation)				 6	30	
1,500 Corn Exchange	-	City Bonds (Navigation)		 34	89	
\$,000 Droitwich Patient Salt. 25 4* 11 2,700 Equitable Reversionary 95 44 90 — General Reversionary Interest 100 5 100 0,000 General Seversionary Interest 100 5 100 0,000 General Seversionary Interest 100 4 2 234 2,100 Hungerford Market 100 4 2 230 2,100 Hungerford Market 100 4 2 230 3,500 London Reversionary 29 2 23 24 3,500 London Reversionary 29 10 196 10,000 Mexican and South American 7 2 34 1,300 Margate Pier 10 196 10,000 Mexican and South American 7 3 4 1,300 Peninsular and Oriental Steam 50 7 584 6,600 Ditto 40 2 5 - Royal Mail Steam 50 45 - Royal Mail Steam 50 52 53 3,000 South Australian 25 6 20,000 Upper Canada 100 5 93 20,000 Upper Canada 100 5 93 36 69 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1,800			 14	26	
- General Reversionary Interest 100 5 100 0,000 General Reversionary Interest 114 1\$\frac{1}{2}\$ 23\$\frac{1}{2}\$ - Hudson's Bay Stock 1 0 230 246 2,100 Hungerford Market 100 \$\frac{1}{2}\$ - 1\$\frac{1}{2}\$ 31 35 8,000 London Reversionary 29 - 23 29 30 Margate Pier 10 196 10,000 Mexican and South American 7 - 3\$\frac{1}{2}\$ 40 40 Mexican and South American 7 - 3\$\frac{1}{2}\$ 4 6,600 Ditto 40 - 58\$\frac{1}{2}\$ 6 52 35 48 8,000 South Australian 25 6 - 30,000 South Australian 25 6 - 30,000 Upper Canada 100 5 93 94 50,000 Upper Canada 100 5 93 94 50,000 Upper Canada 100 5 93 94 50 25 25 25 20,000 Upper Canada 100 5 93 94 50 20 100 20 20 20 20 20 20 20 20 20 20 20 20 2	5,000	Droitwich Patent Salt	25 .	 **********	- 11	
- General Reversionary Interest 100 5 100	2,700	Equitable Reversionary	95 .	 41	.90	100
0,000 Generalaricam Navigation				 5	100	- 157
- Hudson's Bay Stock 10 230 244 2,100 Hungerford Market 100 \$\frac{1}{2}\$ 1,500 London Commercial Sale Rooms 1\$\frac{1}{2}\$ 3,000 London Reversionary. 22 - 23 24 300 Margate Pier 10 196 10,000 Mexican and South American 7 - 3\frac{1}{2}\$ 42,000 New Brunswick 75 41,300 Peninsular and Oriental Steam 50 7 58\frac{1}{2}\$ 40,000 New Brunswick 75 41,300 Peninsular and Oriental Steam 50 7 58\frac{1}{2}\$ 40,000 Mexican and South American 75 - 58\frac{1}{2}\$ 41,300 Peninsular and Oriental Steam 50 7 58\frac{1}{2}\$ 40,000 Utto 50 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0,000			 14*	234	
2,100 Hungerford Market 1,500 London Commercial Sale Rooms — 1½ 31 33 8,000 London Reversionary. 22 — 23 24 300 Margate Pier — 10 196 10,000 Mexican and South American 7 — 24 20,000 New Brunswick 75 — 4 11,300 Peninsular and Oriental Steam 50 7 58½ 6,500 Ditto 40 47 — Royal Mail Steam 52 35 3,000 South Australian 25 6 20,000 Upper Canada 100 5 93 20,000 Upper Canada 100 5 93 36 5 93	-			 10	230	240
1,500 London Commercial Sale Rooms	2,100	Hungerford Market			_	
8,000 London Reversionary. 22 23 24 24 25 26 26 27 28 27 28 28 28 28 28	1,500	London Commercial Sale Rooms		 14	31	32
300 Margate Pier 10 196			22 .	 	23	24
10,000 Mexican and South American 7 3\frac{1}{2} \] 20,000 New Brunswick 7\frac{5}{6} - 7 11,300 Peninsular and Oriental Steam 5\text{0} 7 58\frac{1}{2} 6,500 Ditto 4\text{0} 97 Royal Mail Steam 5\frac{1}{2} 5\frac{1}{2} 3,000 South Australian 25 6 20,000 Upper Canada 100 5 93 20,000 Utto 5 93 94 3 4 4 4 4 5 7 5 7 6 7 7 7 7 7 8 4 9 7 11,300 Peninsular 100 100 12,300 Peninsular 25 13,000 South Australian 25 14,000 South Australian 25 15,000 Upper Canada 100 5 93 15,000 Upper Canada 100 5 15,000 Upper Canada 100 100 15,000 Upper Canada 100				 10	196	
20,000 New Brunswick 75 11,500 Peninsular and Oriental Steam 50 7 584 6,500 Ditto 40 40 47 5,387 Reversionary Interest Society 100 44 97 6,000 South Australian 25 6 93 6,000 South Australian 25 6 93 20,000 Upper Canada 100 5 93 20,000 Ditto 5 93						4 1
1,300 Peninsular and Oriental Steam						1000
6,600 Ditto 40 45* 97 5,387 Reversionary Interest Society 100 45* 97 — Royal Mail Steam — 51 52 53 6,000 South Austrulian 25 6 20,000 Upper Canada 100 5 93 94 20,000 Ditto 5 93 94	11,800	Peninsular and Oriental Steam.		 7	583	3193
5.387 Reversionary Interest Society 100 44* 97 — Royal Mail Steam — 5 52 53 6.000 South Australian 25 6 20,000 Upper Canada 100 5 93 94 20,000 Ditto 5 93 94	6,600	Ditto	40	 	-	- 52
- Royal Hall Steam - 51 52 53 68 6.000 South Australian 25 6 50,000 Upper Canada 100 5 93 94 20,000 Ditto 5 93 94					97	
8,000 South Australian	-				52	58 m T
20,000 Upper Canada	8,000					1.000
20,000 Ditto 93 94	20,000	Enper Canada				
	20,000	Ditto				98 380
	10,000	Van Diemen's Land			4	

Oxford, Worcester, and Wolverhampton Railway.—A call of 51, per bare has just been announced, making 401, paid up.

Namur and Liege Railway.—The directors of this railway are about to sue an official report, as to the position and prospects of the company and of he state of the works.

ADSTOCK COAL-WORKS, SOMERSET .- Notice is hereby given, that, from and after the 31st December, 1847, the several PITS beging to the said works—viz.: Ludlow's Pit, Middle Pit, Old Pit, Well's Way Pit, and ming's Pit, will be CABRIED ON by the Right Hon. the COUNTESS WALDEGRAVE, the proprietor thereof.

(Mining Engineer and Mineral Surveyor), Managery Dated Clandown, near Radstock, Dec. 20, 1847.

LEAD ORES.

Sold at Hol	nveu.		
Tons.	Amount		Purchasers.
40	£9 7		Walker, Parker, & Co.
50		5	ditto
	9 18	0	Mather & Co.
25			Newton, Keates, & Co.
			Walker, Parker, & Co.
			Mather & Co.
50			Walker, Parker, & Co.
			Walker, Parker, & Co.
150			
11	9 9	0	Mather and Co.
Sold at Abere	estanith.		
			Walker, Parker, & Co.
Sold on the 2	Wine.		
100			B. Somers.
71			R. Michell & Son.
45			Newton, Keates, & Co.
4			
			S. P. Eylen
· · · · · · · · · · · · · · · · · · ·	10 5		ditto
Sall at Tiel	annel		
		0	Walker, Parker, & Co.
110	17 9		R. Somers.
	Tons. 40 40 50 25 26 60 15 30 25 150 11 Sold at Aberry 123 Sold on the 1 100 71 45 284 44 1 Sold at Lisk 50 Sold in Lone	Tons.	40 £9 7 0 50 917 6 25 918 0 25 918 0 60 8 14 6 15 9 9 0 25 911 0 25 911 0 150 10 0 0 11 9 9 0 Sold at Aberysteith 123 £10 3 0 Sold on the Mine. 100 111 6 24 8 11 0 44 8 11 0 1 10 5 0 Sold at Liskeard. 50 £10 15 0

BLACK TIN.

Mine	8.		T	ons		Price	per	to	n.	Purchasers.
Drake Wal										Calenick Co. and Williams.
ditto			 	35	 	 21	15	0		Williams and Co.
ditto			 	3	 	 19	0	0		Calenick Co. and Williams.
St. Agnes	Consols		 1	31	 	 40	12	6		Ditto, ditto, and Daubuz.
ditto							10	0		Calenick Smelting Co.
Wh. Beam	(Devo	1)	 ets.	7	 	 42	5	0		Daubuz.
ditto					 	 42	0	0		ditto
ditto	*** *		 	10		 36	10	0		ditto
ditto			 	10	 	 44	2	6		Calenick Smelting Company
ditto			 	7	 	 4	10	0		ditto

COPPER ORES

Sampled Dec. 1, and Sold at Swansea. Dec. 23, 1847.

Mines. Tons. Prod. Stand. Pric	ee.	Mines. Tons. P.	rod. Stand.	Price.
Cobre 80 224 80# £16 2	6	Burra Burra. 95 :		
ditto 76 231 80 16 7				
ditto 65 224 801 16 0	6			
ditto 13 144 85410 4	0	ditto 51 :	28# 8942	3 7
ditto 9 214 81415 6	0	Berehaven 117	94 984	7 4
ditto 106 144 854 9 15	6	ditto 94	92 100	7 2
ditto 105 144 86 9 18	0	Holyford 70 :	244 894 1	9 15
ditto 104 144 864 9 19	0		224. 8741	7 3
ditto 81 141 861 9 18	6	ditto 31	134 94 1	0 14
- ditto 70 141 851 9 17	0	Kilduanne 81	74 105	5 7
ditto 87 224 81416 9	0	Burra Burra 64	194 921	5 6
ditto 66 221 81116 6	6	Ballymurtagh 67	54 1134	4 2
Cuba 106 13 88 9 4	0	Cosheen 24		
: ditto 101 131 864 9 5			171 921 . 1	3 15
ditto 96 13 871 9 2	0	ditto 7		
ditto 87 13 88 9 4	0			
ditto 72 131 88 9 6	0	W. Dolfrwynog 12	34 1284	2 5
Knockmahon 113 81. 1001 6 1	0			
ditto 86 94 1004 7 6	0			
ditto 81 64 1054 4 12	0	ditto 2	34 1224	2 4
ditto 76 82 974 6 8	6	Vine Slag 23	44 1124	2 16
ditto 68 74 1024 5 6		Bankart's Cobre 3		
		and the same		
TOTA	L P	RODUCE.		
Cebre	6	Burra Burra	64 £98	0 16
Cuba 4253 1	0	Ballymurtagh	67 27	6 7
Knockmahon 424 2532 15		Cosheen		0 0

Cuba						276	7	
Knockmahon 424	2532	15	0	Cosheen	19	700	0	
Burra Burra 280	6752	9	6	West Dolfrwynog	27	108	6	
Berehaven	1515	1	6	Vine Slag	22	61	12	
Holyford 148	2523	19	0	Bankart's Cobre	3	33	12	
Kilduanne 81								

COMPANIES BY WHOM THE	ORES	WERE PUR	CHASED.	
Mines.		Tons.	Amount	
English Copper Company		. 151	£2496 18	0
P. Grenfell and Sons		. 392	. 4591.12	θ
Sims, Willyams, and Co		. 82	. 1104 3	6
Vivian and Sons			. 8505 13	6
Williams, Foster, and Co			. 8388 10	6
Schneider and Co			. 6041 8	6
		-		-
Potol tomo		9700	£91 100 B	0

opper Ores for Sale January 6.—Cobre 110, ditto 89, ditto 68, ditto 65, ditto 24. ditto ditto 86, ditto 75, ditto 69, ditto 44, ditto 39, ditto 86, ditto 68, ditto 64, ditto 40.—Chil ditto 55, ditto 54, ditto 51, ditto 16.—Burra Burra 60, ditto 54, ditto 41, ditto 31.— i 74, ditto (not ready).—New Zcaland 42.—Cronebane 28, ditto 6.—Ballymurtagh 32.

COPPER ORES.

Sampled Dec. 15, and Sold at Andrew's Hotel, Redruth, Dec. 30, 1847.

Mines.	Tons.		F	rice		Mines. Tons. Price.	_
United Mines	. 154		£3	9	0	South Caradon 99 £5 8	0
ditto	110		5	12	6		6
ditto	102		5	16	0	ditto 58 4 19 (Ø
ditto	97		3	1	0.		0
ditto	93	****	4	1	0		6
ditto	91		3	10	6		6
ditto	×89		5	10	6	ditto 58 6 17	0
ditto	87		3	9	0		0
ditto	85		5	3	0		6
ditto	81		5	17	0	Treleigh Consols 56 7 9	Ø
ditto	76		59	17	0	ditto 54 4 0	Ĝ
ditto	69		4	19	0		6
ditto	67		5	16	0		6
ditto	68		41	5	6		0
ditto	49		2	5	6	West Trethellan 54 2 18 (0
ditto	48		2	15	6		6
ditto	47		4	6	0	South Tolgus 50 5 14 (Ò
- ditto	41		4	0	0	Wh. Brewer 25 1 15 (B
Par Consols	. 99		8	12	0		0
ditto	93		10	10	0	United Hills 20 2 12 (ð
- III 9 ditto	75		4	13	6	East Downs 19 5 11 (ô
ditto	74		7	8	6	North Downs 15 2 18 (ö
ditto	73		6	8	0	Wh. Ruby 13 4 9 (ð
South Caradon	. 100		8	18	0.	Wh. Unity Wood 9 4 13 (ô
11/1/19				7	OTAT.	PRODUCE	

 Average Standard
 £ 98 19 0 | Average Produce
 8

 Average Price per ton
 £5 3 0

 Quantity of Ore
 2977 tons | Quantity of Fine Copper, 237 tons 13 cwts.

 Amount of Money
 £15,334 9 6

 LAST SALE.—Average Standard
 £ 90 5 0.—Average Produce
 95

COMPANIES BY WHOM THE ORES WERE PURCHASED.

	опа.	Amo			
Mines Royal	3001	£1210	11	6	
English Copper Company	362	1586	3	0	
Vivian and Sons	4854				
Freeman and Co	6031	2619	14	9	
P. Grenfell and Sons	2514	1126	13	0	
Crown Copper Company	374	246	8	9	
Sims, Willyams, and Co	496		18	6	
Williams, Foster, and Co		3088	9	3	
transport out of these looked for all the	7.07		-	-	
Total tons	2977 €	15,334	9	6	

per ores for sale on Thursday next, at Andrew's Hotel, I North Roskear 804—Consolidated Mines 520

NOTICES TO CORRESPONDENTS.

It will at all times save much trouble, and frequently considerations are simply directed—

To THE EDITOR,

Mining Jo

Also, to avoid trouble, Post-Office Oaders should always be made payable to Williams Mansell, as acting for the proprietors.

* We should feel obliged to all and the state of the proprietors.

a We should feel obliged to all pursers, captains, or adventurers, to forward particulars of meetings, &c., of the mines with which they may be connected, on the earliest opportunity, that they may be published in the Journal with as liftle delay as possible.

GREAT WHEAL MARTIA MANE.—Besides the letter inserted in another column, we have received two others, on this mine—one from Captain Spargo, the other from "A Constant Reader" (Ladiceston)—but so much space his been already occupied by the discussion, that we are compelled to decline their insertion.

discussion, that we are compelled to decline their insertion.

New Patents.—An abstract of J. O. N. Rutter's specification, for Improved Methods, or Apparatus, for Conveying Intelligence, is in course of preparation, and will be published in the Missing Journal of next week.

Our friend, Mr. Radby, we are sure, on reflection, will appreciate our motives, in withholding his letter on Mr. Biewitt's "Improvements in the Manafacture of Iron," from publication. At any other season of the year, we could expect nothing less, after its appearance, than "messages" of a very unequivocal nature passing between the writer, Mr. Biewitt, M.P., and Mr. Campin, the patent agent—that would be a state of things, for obvious reasons, we are not at all wishful to provoke.

Errata.— In the letter, in last Journal, on the Proposed Cast-Iron Cellular Foundation for Godwin Sands Lighthiouse—"the piles should not be 'circular,' but square"—should be—"not be 'circular,' but cast, so as to fit to the others without allowing any vacant interstices." Again, in the sentence—"by this means foundation would be provided, which nothing short of the entile teslocation of the chalk bed could ever remove, and similar in principle to a vast cast-iron tooth firmly funged"—should be—" funged litto the rock"—otherwise the point of the analogy is destroyed.

Tincort Ming—Erratum.—In the report of this mine, in our last Number, for "We

Theory Misse_Erratum.—In the report of this milne, in our last Number, for "We shall extend the 142 east, towards the unproductive"—read "productive ground." We must impress upon our correspondents, the necessity of invariably furnishing us with their names and addresses; not that their communications should, consequently, be noticed, but as an earnest to us of their good faith.

The MINING JOURNAL is published at about Eleven o'clock on Saturday morning, at the office, 26, Fleet-street, and can be obtained, before Twelve, of all news agents, at the Royal Exchange, and other parts of London.

Glossary of Mining Cerms.

During the present month, we intend publishing, as a Supplement, AN ENTER GLOSSARY OF ENGLISH AND FOREIGN MINING TERMS.—Subscribers and others wishing for copies of the Number, had better forward their orders, through their agents, to prevent disappointment: the charge for the Journal and Supplement will be Sixpenes.

THE MINING JOURNAL

Railway and Commercial Sagette.

LONDON, JANUARY 1, 1848.

The last quarter of the year 1847 having now expired, we, as usual, present our mining readers with a summary of the sales of copper ores in Cornwall and at Swansea. We do this not without regret, seeing, that notwithstanding the hope we expressed at our last quarterly statement of returns and prices, remaining steady, and for which, at the time, we think there were reasonable hopes, while the returns have increased 795 tons, the total amount received in return has declined nearly 6000l. In the quarter ended Sept. 29, the quantity of copper ores sold at the ticketings in Cornwall was 39,154 tons, amounting to 226,346l. 2s.—while in that just ended they were 40,949 tons, amounting only to 220,4011. 15s. 6d. The standard, with regard to produce, has slightly decreased, and the average price has fallen off from 5l. 16s. 6d. to 5l. 10s. 6d. The above quantity of ore was purchased by the several smelting-houses as follows-viz.

OHOWS-VIZ.		Am			
Mines Royal	2063	3 £8,286	14	9	
English Copper	3429	15,802	15	5	
Vivian and Sons	9446	5 51,648	14	10	
Freeman and Co					
Grenfell and Sons	4330	18,897	9	3	
Crown Copper	366	2,289	6	2	
Sims, Willyams, and Co	4995	95,965	8	5	
Williams, Foster, and Co	11167	70,514	18	4	
			-	-	
Make 1		Coop 401			

The entire sales of copper ores at Swansea, comprising foreign, Irish, and Welsh, have decreased, from the previous quarter, by 2830 tons, and in money, 41,925l. 5s., of which the decrease from Irish mines alone has been 2513 tons, and 17,953l. 1s. The whole amount has been 12,478 tons, and 163,846l. 8s. 6d.—which quantity was purchased as follows—viz.:

purchased as follows—viz.: Tons.	Amount.				
English Copper 724	£8,108	9	6		
Freeman and Co 524	6,587	13	0		
Grenfell and Sons 1071	11,587	18	3		
Sims, Willyams, and Co 1363			6		
Vivian and Sons 3790					
Williams, Foster, and Co 4191					
Schnieder and Co 815	17,990	1	0		
(P-4-3) (None 10 479	4.00.014	-	-		

The quantity of ores from Ireland has been only 2202 tons, producing 16,116l. 5s. 6d.; while in the last quarter they were 4715 tons, producing 34,069l. 6s. 6d. They were sold as follows—viz.:

Berehaven	1211	** ** ** **	£8276	17	0	
Knockmahon	646		3905	15	0	
Holyford	148	** ** ** **	2523	19	0	n
Cosheen	49		700	0	0	
Kilduanne	81		433	7	0	
Ballymurtagh	67		276	7	6	
Total Tons	2202		16,116	5	6	

Tigrony and Cronebane, from which, in the previous quarter there were sold, at Swansea, 849 tons—realising 3330l. 5s.—ha during the past quarter, supplied none.

The quantity of copper ores sold at Swansea, from the principal foreign mines, has been as follows—viz.:

	Tons.	Amount.
Cobre	5077	
Australia	1569	36,948 3 6 23,824 17 6
Cuba	1993	
Chill	500	9,919 16 0
Copiapo	459	9,197 7 0
New Zealand	30	225 15 0
TotalTons	9628	£141,111 17 0

Carn Brea remains second in the list, with a slight falling off in the returns. The Great United have increased from 2170 tons, producing 99611. 19s., to 3036 tons, and 13,4601. 0s. 6d., now being the third largest producing mine. North Roskear has fallen off one-half; from standing the fifth in last quarter's returns, with 1931 tons, and 10,5871. 4s. 6d., this quarter only gives 924 tons, and 50311. 14s. 6d. Great Consols, Fowey Consols, Par Consols, and the principal large mines, are in about the same relative positions as usual, and our readers, interested in the various smaller mines, will be able to make comparison, by reference to last quarter's return, in the Journal of 9th October last—always, of course, having reference to the average standard, produce, and price.

We briefly alluded, in a former Number, to the explosion of carburetted hydrogen in the coal mines of Messrs. BAILEY, at Nanty-glo, by which seven unfortunate men lost their lives, and which has been productive of more important results than generally follow such accidents. From the principal evidence on the coroner's inquest, it clearly appeared that one of the sufferers, named Josef Parks, was the party, whose carelessness, in taking a naked candle into the workings, caused the accident; yet, notwithstanding this,

there were suggestions from some of the witnesses who worked in the colliery, that had Mr. Wightman, the manager, paid better at-tention to the applications of the men, the accident would not have occurred. It was attempted to be shown, that a door was required in that part of the mine where the explosion took place—that Mr. Wightman's attention was called to it, but that its erection was denot have occurred. Now, Mr. Wightman, in his evidence—and which was not contradicted by one of the many witnesses who followed—stated that none of the men ever expressed any apprehension of danger, or any dissatisfaction, as to the state of the works—that the door in question had since been put up—and that, on testing the heading with a Davy lamp, he found the gas present in as great a quantity as before the accident—and that he did not believe that, if it had been put up sooner, the accident could have been prevented. The fact is—and we are sorry to find such is the case—that a great prejudice exists among the men against Mr. Wightman as manager—probably, from his having been a New castle collect and the South Wales men wishing to have a viewer from among MAN as manager—probably, from his having been a Newcastle col-lier, and the South Wales men wishing to have a viewer from among their own countrymen. To such a ridiculous extent is this carried, that the men in Messrs Baller's pits have, since the inquest, struck work—and thus not only subjected themselves and families to mi-sery and starvation during what ought to be a season of comfort, but placed the furnace-men, unwillingly on their part, in the same miserable situation as themselves. Mr. Wightman is a practical and highly-intelligent man, from whom we have received, on various occasions, many valuable communications on ventilation, which have been published in our columns; he has, we have understood, given satisfaction to Messrs. Baller, and is by no means prejudiced to any particular system as a general panacea, but endeavours to arrange his ventilation according to local circumstances. We trust the infatuated men will return to their employment, and, by being less reckless themselves, assist their manager in securing the general safety, and carrying on the works with facility and confidence.

In the Gazette, of Tuesday evening last, there are instructions under the Royal sign manual, for altering and establishing the royalty on minerals raised in New Zealand, in such manner that in future they shall be 15 per cent. Now, we are not aware what was the previous amount of royalty, or if there was any; but it is evident that the fact of imposing burdens on the mineral productions of an infant colony, tends very far to damp the ardour of enterprise, and deter many an adventurer in England from leading his aid in the development of its character and riches. South Ausralia was, happily, free from such impost—hence the rapid extension of successful mining adventure; and, when Governor Robs attempted, in the plenitude of power, and arrogance of office, to impose the tax on minerals on a similar footing with Cornwall, he raised a storm about his ears which he found it difficult to quell; the whole population were opposed to his dictum, and application was made to the Government at home against the obnoxious royalty; the reply to which, however, was not waited for, the Governor and Council finding it prudent to withdraw the illegal Act. The lands of New Zealand are held, it is true, on a very different tennre to those of South Australia; but we would simply urge, as a matter of policy, that if a royalty on the minerals of New Zealand is to be imposed, it should, in no case, be enforced until a definite period, say one year, after the workings are absolutely paying their ex-penses. This would encourage immigration and mining enterprise, tend to explorations into the interior, and go far to avert the unhappy differences now existing between the colonists and natives.

It is highly probable, that the war between America and Mexico, will be productive of much more important results than is generally anticipated. It is known, that there are, throughout Mexico, upwards of 3000 separate mines of the precious metals-principally silver, it is true, but inexhaustible, and, if worked with capital, spirit, and skill, it is estimated, might be made to produce at least quadruple what they ever did during their most flourishing periods. In addition to this, it may be naturally expected, that on the establishment of order, whatever party get the country, whether hereafter forming part of the United States, or not, numbers will flock into this fine territory on mining speculation, and, doubtless, many new deposits of mineral will be discovered. The power which the EMPROR of RUSSIA holds over the funds and commerce of Europe. EMPERO of Bussia holds over the funds and commerce of Europe. from his possession of the largest and most productive gold deposits in the world, and the late large importation of bullion into England from different quarters, have set the American press on the alert, to give subject matter for that excitement, so acceptable to the Yankee character. Many a longing eye is turned towards that El Dorado of the western world; and nationally, it is highly probable, that the way was criginally brought about from candidize and a de-Dorado of the western world; and nationally, it is highly probable, that the war was originally brought about from capidity, and a desire, on the part of the Americans, to possess themselves of Mexico, and her precious metals. It has been already boasted by a New York writer, that these mines of wealth and power, which have fallen into the hands of the Anglo-Saxon, the war will be the means of opening to the world, increase the production of the precious metals, and annul the monopoly, which Russia has long possessed, through her gold mines. The silver, equal to 25,000,000 dols., which were raised annually just previous to the war, the writer aste, could be quintupled, as one American is equal to four Mexicas in mining, and to half-a-dozen in fighting. This is Yankee boasting with a vengeance. Of the mineral riches of Mexico, there is no doubt—how far the Americans will prove themselves superior no doubt—how far the Americans will prove themselves superior their development, should they possess them, remains to be seen: but there are difficulties to overcome in that mountainous district, of which few, who have not obtained actual personal proof, can form no idea; and, although it is likely a great political and moral change will take place in Mexico, her mines are so locally situated, that they can never be worked with that economy, which marks the character of the English and American copper and lead mines.

Since writing the above, we have perused the speech of the American President to Congress, in which it is plainly asserted, that ter-

ritorial indemnity for the expenses of the war-absolutely m territorial aggrandisement—is, and ever was, the object of the United States; and it appears that General Scorr has submitted his views in full to the President, and has suggested that the Government should hold the city of Mexico, and the other chief cities of the reshould hold the city of Mexico, and the other cities of the republic, take possession of the mines and public lands, and from them, as well as from other sources of revenue, to raise the means of paying the expenses of the war, and, at the same time, to occupy all the ports and seaboard, and collect the imports on all articles introduced into Mexico from foreign countries, until the expenses of the war are defrayed and an honourable peace concluded.

As a general proposition, it may be confidently affirmed, that the Australian colonies of England are not, in England, sufficiently appreciated. Considering the vast area they occupy, the genial climates beneath which they are stretched out, and the gushing for-tility of the soil, they have claims of an extraordinary kind on the attention of the British Government, and to their cordial adoption by the British public. Grazing, and the elementary agricultural arts, are, at present, the bases of the industry of those interesting regions; but not a week passes, without exhibiting evidences of the utility of these noble colonics to make larger and more various containants to the comfort and the wealth of the world. It is, how-

ever, principally to their mining capabilities that we wish, for a moment, to direct the attention of the mining public. Several large importations have recently come in, from the places in question, of both the useful and the precious metals; and, we understand, it is the opinion of the best judges, who have examined parts of the vast district with a view to mining, that the indications of rich and extensive metal deposits are numerous and striking. It must be remembered, that the situation of these lands is nearly antipodial to the parent state; and that, although by a chain of steam commuthe parent state; and that, although by a chain of steam communication, which will shortly girdle the globe, they will be brought some thousands of miles nearer, yet their distance will greatly contribute to their permanent exclusion from the markets of the northern districts of Europe. They are, also, for all purposes of competition with the older states, exceedingly short of labour; nor, if labour was more abundant does it uppear to us that its absorption in minwas more abundant, does it appear to us that its absorption in min-ing would be its most natural, or its most profitable, destination Want of labour is a want reaching to all the unassayed elements of a new country. Its first dedication should be, to supply the most pressing and prevalent wants of life; and we believe, that neither mining, nor mining produce, ever has been, or can be, classed with these. For these reasons, it is not likely that the colonies of Australia, north and south, can, under any circumstances, for a series of tralia, north and south, can, under any circumstances, for a series of years, be our competitors in the ore markets of Europe. We shall rejoice in every encouragement given to its nascent industry, in whatever channel directed, and hope the eye of the imperial government will be constantly upon it for good. With respect to the amount of care and attention, which it is in the power of the Colonial Office to direct to this or to that particular dependency, we are bound to admit that, in particular cases, delays and omissions must needs are a Considering the large given of supervision these areas. needs arise. Considering the large circle of superintendance, and the immense details, which task the administrative diligence of that department of the Executive Government, we are rather surprised that more instances of apparent neglect do not present themselves. Those who wear the shoe, are likeliest to know the true character of its pinching. Beyond the sphere of office (too far beyond, alas!) we are apt to fall into the snare of the tavern politicians of Old Rome, who, sitting by the fire, pretended to know what was doing in the Capitel. in the Capitol.

It is but a few hours since, that the first morning flag of 1848 was een to flutter on the tip of the eastern horizon. We hasten to congratulate our friends in every place, on the advent of a new year, which will to them, we trust, be a period filled with all happiness and prosperity, both in their domestic and their public relations. It is, beyond all comparison, easier to become the historian of the past, than the prophet of the future. The qualifications for the first of these may be drank in at earthy fountains; but a higher, if not heavenly, afflatus is necessary, to give substance and life to the character second in the order of enumeration. We make no pretension to either; it is more to our purpose to notice, for a moment, the existing circumstances under which, as a great working community, we are entering on the duties of an untried period. We have before intimated an opinion, that the repose which the commercial interests at large have now for some time enjoyed, will result in the repair and concentration of our public resources. We shall not have encountered the late hurricane for nothing; it will not have passed over us like the idle wind, which we regard not; the vessel will, at least, be kept in better sailing trim, and the crew more steadily looking out for storms. We are no less prepared, we think, than in our palmiest days, to run the race of commerce against the world, and have no diminished confidence whatever, that upon us will descend the chief honours of the contest. We fear, indeed, that the check given to general business in the summer and autumn months will show itself very distinctly in the revenue accounts for the quarter, which will soon be in the hands of the public; and we are apprehensive, also, that the suspension of railway works will, during this and the next month, tell very painfully on those branches of our industry—the iron trade, for instance, and the railway labour market—which were so materially fed by the large railway expenditure previously existing; but, these considerations excepted, there is nothing to impede our course—nothing to hinder our success—in prosecuting the peaceful interests of commerce and civilization throughout the habitable world. Let us keep in mind, and act upon the conviction, that the true wealth of nations is the industry of nations; and, of all the nations now living, we are, and must continue to be, the most diligent in the dedication of our faculties, to the laborious and the reproductive arts. The spectacle we must present to the world is, not a theory of melancholy figures, fettered to tasks they would fain leave undone, but dare not —that were rather one of the cartoons out of the Inferno, than a scene in merry England; but let us show ourselves a free, a fully scene in merry England; but let us show ourselves a free, a range occupied, a law-obeying community, all the classes of which are making the most of these circumstances, and upon whose countenances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable a cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the increase and pernances is traceable and the cheerful earnestness for the cheerfu petiation of whatever makes hie prosperous and honorable. To this a multitude of outward circumstances are at this moment con-tributing—a more liberal policy regulating the intercommunication of nations—a vast colonial empire, daily rising in importance as a market for our wrought produce, and proffering a rich and virgin soil for our young and adventurous population—a state of peace, pro-found in its degree, and universal in its extent—the foreign ex-changes giving way before the enlarged stream of our exportations. changes giving way before the enlarged stream of our exportations and the bullion capital of our trading circles, placed in safe custody, and made accessible, by its abundance, to all who need it. We must not omit, from the rich inventory of our means, the great mining area of these islands—the iron and coal-fields of Great Britain—are of themselves an ample dowry for a first-class nation, to which, ading the teeming metallic deposits of Wales and Cornwall, we fill up another magnificent store-house of public wealth. It is in the ap plication of our renewed energies to this branch of our home indus plication of the renewed energies to this branch of our nome industry during the year, whose dawn has just opened upon us, that we look for some of the means of repairing the devastation with which we were recently overtaken. This is the class of duties—this is the particular vocation—which we take humble and earnest leave to commend to the care and patronage of those who know the value, and who have tested the benefits, of this particular and peculiar branch of English industry. Upon these points, collectively, we found our full confidence as to the progress of the year whose first morning has just risen upon us; and our readers may be assured that, throughout the period just spoken of, we shall use every exertion to enlarge the information, and increase the utility of, this paper

With the commencement of the New Year, we resume the sub ject of the mineral resources of the Sister Isle, and the consideration of the course which should be taken, with a view of affording relief, not only from Christian motives, but with a regard to the channels through which such relief may be afforded, and that most effectively. Although many millions of money have been expended, within the past two years, in giving employment to the peasantry of Ireland, yet, if we look around us, how little real good has been effected. We do not find that the ports are improved—that bogs have been reclaimed—that any step has been taken to improve, or resuscitate, the fisheries; or, indeed, any one public work, which shall be, for the future, of public advantage. It is true, that a large portion of the expenditure has been applied to such as are designated "public works"—simply, we presume, because it was "public"

money which paid for the labour employed; and, while we fully agree with the Government in requiring labour in return for the aid afforded: yet, we regret to say, that the description of labour employed is such as to render its value insignificant, while many of the projected improvements are left in an unfinished state. The main object, to which it would seem the attention of the Government authorities was directly use the improvement. ment authorities was directed, was the improvement, or construction, of roads; and here, it would appear to us, that those in power were more than ordinarily short-sighted. It was said, we are aware, that, by improving the modes of communication, you afford to the farmer facilities for conveying his grain to market, and at once throw once the country; but we would ask did the commissioners. farmer facilities for conveying his grain to market, and at once throw open the country; but, we would ask, did the commissioners, or those empowered, reflect for one moment that, while roads were being made, the farmers were lying idle, and that those who should have been employed in tilling the ground, were allowing it to go to rack and ruin, while they received the Parliamentary grant as the return for their labour on that which, we contend, is unproductive. The construction of railways seems to have been comparatively lost sight of, although such may be considered as being most conducive to the interests of Ireland—reducing time and distance, as well as the cost of carriage; and here was a wide field open, had the Government proceeded with that degree of prudence which they might naturally have been expected to exercise, with the many facts and evidence before them as regards the Sister Isle.

We are fully sensible of the many obstacles which present themselves in dealing with that favoured, yet unfortunate, country. We

selves in dealing with that favoured, yet unfortunate, country. We speak of it as favoured by Nature, but unfortunate from the schisms and divisions which exist; but we feel assured "that, had one-tithe of the money expended—aye, even one-twentieth part—been applied to purposes from which beneficial results might naturally have been looked forward to, we should, in a great measure, have been relieved from those further calls which present themselves, at the present moment to every reflecting mind

present moment, to every reflecting mind.

We have digressed from the ordinary course pursued by us, that of we have digressed from the ordinary course pursued by us, that or confining ourselves to the immediate question before us, and which ever presents itself. The desire we have of promoting the mining interests, whether of this country, of Ireland, or other parts of the world; but we have felt it a duty incumbent on us, ere we recur to the measure which we advanced some few weeks since, to say a word, en passant, on the Government measures of the past, sincerely trusting that the future will be of such a nature as will be hailed with that satisfaction on the part of the landlord and the tenant—indeed, all who feel an interest in the welfare of that countenant—indeed, all who feel an interest in the welfare of that coun-try—as shall hold out brighter prospects for the future.

We have already stated in our columns, that we were well con-vinced, had but a portion of the money doled out to the Irish poor been applied to mining undertakings, that results highly satisfac-tory would have arisen, and a regular source of employment have been afforded; but, as our object, on the present occasion, is to direct the attention of Government and the authorities to the position of the mining districts at this moment, brought about by their want of foresight, we will leave for awhile the discussion of the advantages which might fairly have been calculated upon to have accrued from the working of the mines of Ireland. It will serve our purpose to confine our observations, on the present occasion, to the County Wicklow; and we will take the electoral division of Castle MacAdam—the mines to which we shall refer being situated in the Vale of Ovoca, and well known which we shall refer being situated in the Vale of Ovoca, and well known to our readers, we doubt not, from their frequent quotation in the Swansea Ticketting Papers. These comprise the Ballymurtagh Mine, belonging to the Wicklow Copper Mining Company; the Ballygahan Mine, of which Mr. Hodgson is, we believe, the sole or principal proprietor; the Cronebane and Tigrory Mines, the property of Messrs. Williams, of Scorrier; and the Connorree, which is held by a private party in London. The population dependant on these mines we may take at 5000 individuals, the actual number employed underground and at surface, as also in the carriage of ores, exceeding 1200, and whose families are dependant on their earnings, who are supported by their labour, and by the enterprise of the proprietors. It would be only natural to expect that, with this aid to parochial relief and to Government advances, every facility would be afforded to the adventurers, and that they would not be taxed for rendering the means of support to five thousand of their fellow-creatures—employing a large capital, and running those risks at all times attendant on mining pursuits; but what is the case? we really blush to tell it—the Poor Rates, as we are informed—and we have no reason to doubt the accuracy of the statement; for we have our information from parties who, as landholders, and acting on the magisterial bench, may be supposed to know—did not, for some three or four years antecedent to the sad visitation of the past two years, exceed 5d, in the 11; and, during the past 12 or 18 months, the gentry subscribed as a sum—we had love for the reader the relief of the strength of the past two years, exceed 5d, in the 11; and, during the past 12 or 18 months, the gentry subscribed as sum—we had love for the reader of the strength of the past two years, exceed 5d, in the 11; and, during the past 12 or 18 months, the gentry subscribed as sum—we had love for the reader of the strength of the past of the past two years, exceed 5d. 5d. in the 1l.; and, during the past 12 or 18 months, the gentry subscribed a sum—we believe 500l., or thereabouts—towards the relief of the poor: this, with the employment afforded, kept down the rate, which did not exceed 73d. in the 1/1; but the last made, some 10 days since, is three

poor: this, with the employment afforded, kept down the rate, which did not exceed 7½d. in the 1l.; but the last made, some 10 days since, is three shillings in the 1l.; while the four mines we have quoted are rated at 5500£, or thereabouts, and, consequently, called upon to contribute 825l. per annum, and this taken from the pockets of those who are giving employment to the labouring poor, who, otherwise, must be thrown upon the parish, or the town lands, to find support, or to die.

As a slight evidence of the nature of the workings, and the extent of employment given, we may observe that, at the present moment, Cronebane and Tigrony produces from 1000 to 1200 tons a month, Connorree we suppose about 500 or 600, and we should imagine Ballymurtagh and Ballyghan, together, would give fully 2000 to 2500 tons—thus making, in the whole, full 5000 tons a month of sulphur ores. These require to be carried down to Arklow, or Wicklow, and there shipped; and yet, with all this encouragement, the mine adventurer, and the mine labourer, is mulcted to the tune of 3s. in the 1l., to support those in distress, whose cattle are canted, and ejected from their homestead by the absentee and middle man. We dare not trust ourselves to express our feelings — feelings which are the result of personal observation; but we trust we have said enough to excite the attention of those who possess power and influence, and sincerely do we hope that, on the next advance being made by Government, the state of the mining industry of Ireland will be duly considered, and that a helping hand will be lent to develope the mineral riches of that country, and not a further endeavour made to crush private enterprise.

REVISION OF FRENCH TARIFF.-The speech of the King of the French. delivered on Tuesday, on the opening of the Chamber for the ensuing session, has given general satisfaction, as his Majesty announced, that vario tions would be made in the tariffduties on the importations of foreign produce The reduction of the impost on salt, one of the most grievous taxes which has for a long time been brought before the House, will be the means of developing that branch of mineral industry. Although nothing positive was stated as for a long time been brought before the House, will be the means of developing that branch of mineral industry. Although nothing positive was stated as to what the Government intends doing with respect to the alteration in the next to prohibitory duties on British coal and iron, machinery, &c., it is evident, that there is an intention of making a beneficial change in the oppressive laws, that have hitherto existed, those articles, both from this country, Belgium, Sweden, and other parts. From the official returns it appears, that, notwithstanding the high duties, the importations of cast-iron and coal have greatly increased during the present year, and although the mining industry in France has been improving, they have not been able to, meet the demands either for metal or fuel. The decrease in their maritime navy is one of the astounding facts, that the Minister of Commerce was obliged reluctantly to announce, and shows, that where prohibitory laws exist against the interchange with foreign countries, at low duties, their commerce must be annually on the decline. The present state of their steam navy is now under the special inspection of a scientific commission, and we are glad to see that the Duke de Montebello, the new Minister of Marine, has declared, that unless the oppressive duties on foreign iron and coals are reduced, neither their armed steamers or merchantmen will be able to compete with foreign countries. We have often alluded to the subject, and say, "better late than never," in reducing those duties on the mining industry of this kingdom, which will be beneficial to the commercial intercourse between us and our friendly neighbour. ercial intercourse between us and our friendly neighbour

A CONTRAST.—The imports of this country in 1803 were in amount, calculated at the official rates of valuation, 26,822,696*l.*, and the exports 28,541,405*l.* In 1845, the imports were 85,281,958*l.*, and the exports 150,877,902*l.*

THE MIXED GAUGES.—The Gloucestershire Chronicle says:—"We are glad to find that the new system between this city and Cheltenham is working most satisfactorily."

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MINING DURING THE PAST YEAR.

Since it has been our duty to chronicle the progress of mining adventure, perhaps no year like the past has been so full of changes and fluctuations. The standard mines, it is true, have paid dividends that will compare with former years, and their prices have kept up equal with, if not better, than any other kind of investment; but, whilst the commercial world has been convulsed with misfortune and distress, and the ruin and disquiet caused by the failure of houses, hitherto supposed solvent and unexceptionable, have created want of confidence and distrust in all, no wonder that speculation for a time received a check, and that many of the younger mines fell beneath the influence of the storm. Upon the old mines, too, the low price of copper ore has had serious effect, more especially those which, from their great depth, are worked at a heavy and unreducible cost. Perhaps, to explain this so as to be generally understood we may repeat here a case we gave also last year:-Wheal A-, a deep mine, returning 1000 tons of ore per month, which, with a fair standard, realises 5l. per ton, or 5000l .- the cost of raising this is 4000l., leaving a profit of 1000l. upon the month's working. Now comes the other side of the picture- the standard suddenly falls, the cost of getting 1000 tons of ore remains the same; but the ore will yield, owing to the fall, only 4l. per ton, or just sufficient to pay cost. In many mines the fall of the standard causes heavy losses. In a fair and legitimate manner, no one would be disposed to cavil at these fluctuations, knowing that markets will change and prices vary under the influence of supply and demand; but what will our readers say, when they learn that, during the time the standard for ore was weekly falling, the price of the metal was advancing! And yet the smelters, who regulate all this, would have you believe that their trade is no monopoly, and that, being for the most part Cornishmen, they have the interest of "One and All" at heart! Their profits at all times are said to be enormous, and we must think a time of scarcity and commercial distress was but ill chosen to swell out already overgorged coffers, at the expense of the working miner and the honest adventurer. With these few remarks, we shall turn from the subject, and open our budget for the year with the following table:-

LIST OF DIVIDENDS PAID IN BRITISH MINES IN TWELVE MONTHS, ENDING DEC. 30, 1847

Mines.	Total dividends	. Div. per &	ih. Paid per Sh.	Market Val. p. Sh
East Wheal Rose	£34,560	£270	£50	£1300
Carn Brea	20,000	20	15	190
Devon Great Consols	15,360	15	I	200
Whea! Seton	11,880	120	214	1200
South Francis			160	200
South Caradon	7,680	60	5	400
Wheal Margaret	6,720	60	10	250
Treviskey and Barrie	er 5,910	48	130	150
United Mines*		25	300	350
Treleigh Consols	4,500	188	61	4
West Caradon		£19	20	100
Par Consols*	3,072	24	900	1000
Stray Park	4,000	4	14	25
Callington	3,060	3	19	35
Great Consols	3,500	35	1000	400
Wheal Friendship*	2,560			—
North Roskear	2,450	35	10	300
East Crofty	1,880	20	280	125
Levant	1,280			90
Tresavenn	1,968	124	10	200
Trethellan	1,200	10	5	15
Treltane	1,280	B	2	26
North Pool	., 1,000	10	45	500
Balleswidden*	933		9	18
West Providence	704	25	1	20
Wheal Spearn*	700		10	75
Wheal Sisters	1,024	4	29	20
Wheal Vyvyan	552	21		60
Wheal Franco	388	3	27	30
Wheal Bal	120	· · · · I	51	20

The total amount of dividends paid, in 1846, in twenty-eight mines, was 158,8381. This year, it will be observed, in thirty mines, they amount to 155,381/., showing, in the aggregate, a decrease of 3457/.; but when we take into consideration that Devonshire Great Consols, in 1846, paid 37,8881., and in 1847 only 15,3601., or less than half, the deficiency is more explained, and shows better results on the other mines in the list. In the case of Devon Consols, the falling off in profits declared may be explained by the fact, that the directors determined, taking into consideration the magnitude of the company's operations, upon having a large available fund, and which, we are informed, now amounts to nearly 20,000l. Up to this time, the principal returns have been made from Wheal Maria; but the other mines of the company in the same lode-viz.: Wheal Josiah Wheal Fanny, and Wheal Anna Maria-are now yielding large quantitics of ore. Wheal Josiah, we are told, a short time since, yielded 500 tons of ore from one pitch in a month. Of mines in the above list, which have never before paid dividends, and are consequently now coming into profitable working, are Treleigh Consols, Wheal Trehane, Wheal Sisters, Wheal Spearn, North Pool, and Wheal Franco. The Great Consols, under former fitable working, are Treleigh Consols, Wheal Trehane, Wheal Sisters, Wheal Spearn, North Pool, and Wheal Franco. The Great Consols, under former management, paid about 300,000! in dividends; but during 1845 and 1846, no profits were made—the present year, therefore, is the first of profitable results to the present company; and, unless the low standard has too great an effect upon them, profits may be looked for. Of Treleigh Consols, we may remark, they are worked by a scrip company, who have expended a large sun (64. 10s, per 5000th share), and promise now to well reward them for their outlay. Trehane is a very promising lead mine, adjoining Trelawney, with a prospect of paying regular and steady dividends, although the mine only commenced working two years ago. North Pool is the great gun of the year—12 months since the shares were 406. each, and have since reached 500l. each. The first dividend, 1000l., was declared in November last. This mine and Trehane are two we predicted in our last year's summary as of great promise. Among the list, East Rose, Callington, and Trehane, are lead mines—Callington yielding also rich copper from one lode, worth about 40l. per fathom. Wheal Margaret, Balleswidden, West Providence, Wheal Spearn, and Wheal Bal, are worked for tin—whilst all the others are copper mines. The lead market, not being so much under the influence of the smelters, though labouring under the disadvantage of too small a capital, render the lead mines less liable to the depressing influence of the standard, and their profits may be calculated with more certainty.

The mines which paid dividends last year, but have not declared any profit this, are Tincroft, Trelawney, and Botallack. The first named is leaving a small profit, but labours under the ovil of expensive management. Although paying nothing to the shareholders, the expenses of the London office are said to be nearly 500l. a year. Wheal Trelawney has been working to a profit of about 300l. per month; but large sums of money have been laid out dur

Botallack has failed through poverty; but it is hoped may recover its former position. The ores are very rich, and often found in large deposits—five years since, the shares dropped to 100l. each, and in a few months, from a sudden improvement, reached 1000l.

The mines arspended during the year, some of them holding out pro-

sudden improvement, reached 1000l.

The mines arspended during the year, some of them holding out promise of success in 1846, are Trewollack, Ryalton, Rose Consols, Lanivet Consols, Tretoil, Wheal Gill, Caradon Consols, Wheal Norris, Wheal Concord, Wheal Walter, East Tamar, South Tamar, Wheal Agnes, &c.; it is only right, however, to remark, that some in this list have been brought to a sudden close on account of the pressure of the times, and the inability of large holders to meet their costs, and many may be resumed when the pressure cases, and their affairs can be placed in a more satis-

The returns of profits, placed against the mines, marked with an asterick, are made up only to the 50th of June last. The amount of dividends paid in the last six menths away not been able to obtain, although more than one application was made to the anager on the subject. We regard this the most, that public attention being now pecially directed towards mining, there will be a want of confidence towards those corns, where there exist objections, to furnishing information. The answer, that "such formation is only given to shareholders," is one, we are happy to say, quite exploded in formall and we did not expect to find it given in London, it an office which, at least laims to less model of perfection, as it regards the management of mines.

factory position. The folly and infatuation of individuals holding share to a ridiculous extent beyond their resources, have been fearfully shown in factory position. The folly and infatuation of individuals holding share to a ridiculous extent beyond their resources, have been fearfully shown in some of the above; and those shareholders, who purchased for investment, and with a desire to pay up their proportions of cost to prove the mines, have been sacrificed to the stupidity, or capidity, of a few. The affairs of Wheal Concord seem to be in lamentable confusion: it is, however, right to add, that it has never been supported by mining men; and looking at the manner in which it was formed, and by whom projected, its fate was long ago foretold. The same may be said of Wheal Walter, and others having the same origin. If the public will enter upon speculations brought out by inexperienced men, without due inquiry, and undertake the management of affairs totally beyond their comprehension, it is rather too much that they should charge their disappointment and losses to the legitimate chances of mining. We will venture to affirm, that the Wheal Concords, Wheal Walters, et hoc genus, have brought more discredit and disgrace upon Cornish mining, than years will efface. Those who have suffered by them were new to mining—they have been led away by misrepresentations, sacrificed by strange mismanagement, and they have lost their money and their confidence. But they ought to have known before, that good mines and good setts always find supporters in Cornwall, and are not generally brought to London for sale in the manner that these were.

In a review, purporting, more particularly, to give facts and figures regarding the trans. ctions in mining during the year, it would, perhaps, be thought savouring of partiality, were we to hold up one or more mines as

an a review, purporting, more particularly, to give facts and figures regarding the transactions in mining during the year, it would, perhaps, be thought savouring of partiality, were we to hold up one or more mines as worthy of especial notice either as speculations, or investments. Nevertheless, we cannot avoid remarking upon such as, from the best practical judgments and the opinious of the most several search and the opinious of the second search and the search and ments, and the opinions of those most conversant in share dealing, that, for investments, such mines as Devon Great Consols, Treviskey and Barrier, Stray Park and Camborne Vean, Trehane, North Pool, South Francis, Carn Brea, and Wheal Seton, have been more in demand than others; whilst, as speculations, and such as are likely to have the greatest rise in price, ere long, Condurrow, South Tolgus, Great Rough Tor Consols, Herodsfoot, Wheal Tremayne, Trevean, Mary Ann, Heignston Downs, Great Michell Consols, and Mendip Hills. As much discussion has arisen as to the real state of Heignston Downs, we believe, to set the matter at rest, the present directors have had the mine thoroughly inspected, and the reports fully agual those models by the agents. We are spected; and the reports fully equal those made by the agents. We are told, 700 kibbles of the tinstuff at surface have yielded two tons of black tin, worth 40*l*, per ton—and this at an expense of 6s. 8d. in the 1*l*. The calculation is, that 27,000 kibbles of the like stuff are now lying at surface, besides great quantities broken in the different levels. The Mendip face, besides great quantities broken in the different levels.

Hills Company have failed in their mining operations; but tained a large extent of slag ground (or the refuse of lead left by the ancient miners), they have, during the year, been opening it, and building smelting furnaces, railroads, launders, &c., for which repeated calls have smelting iterances, rainroads, launders, &c., for which repeated caus have been made. These, we are told, are now complete, and the smelting is to commence immediately. Considering the vast quantity of slag (said to yield 20 per cent. of lead) discovered, the company's prospects are most encouraging, and something beyond speculation. South Tolgus derives its chief attractions, not alone from having already a good lode discovered, but from being the adjoining mine to North Pool, which we have before named as being the great gun of the year. Trevean has been worked for 18 months as a tin mine; and, as such, has just paid her way. The shares, however, lately rose to a premium of upwards of 20l, per share, in consequence of a discovery that the gossan of a lode discovered, and of which a large quantity is already laid open, yields a large proportion of silver. Some of the samples assayed gave a produce of more than 1000 ounces of silver per ton of gossan—whilst the average of all the samples, bad and good, would yield a return of 30l, per ton. Herodsfoot is a rich mine, spoiled for want of efficient machinery. Had a call of 5l, per share been made six months sirce, and a steam drawing, whim erected, the shareholders would at the moment be in receipt of handsome dividends—the fear of a call has prevented this. The mine has a fine pumping steam engine—whilst a water-wheel works a crusher for the lead, and draws all the stuff from the mine. But were this wheel constantly at work in drawing, it could not raise all the stuff broken in the mine; and yet, two or three hours a day, it has the coase drawing stuff to grant, the lead for dressing been made. These, we are told, are now complete, and the smelting is to stuff from the mine. But were this wheel constantly at work in drawing, it could not raise all the stuff broken in the mine; and yet, two or three hours a day, it has to cease drawing stuff to crush the lead for dressing. The consequence is, an accumulation of lead stuff in the mine, which ought to be raised and sold—whilst, on the contrary, it blocks up the levels, and prevents the men from working efficiently. Notwithstanding these great drawbacks, the mine is yielding 50 tons of lead per month, worth 12/ per trawateks, the links is yearing 30 of ns to lead per install, woth 12. For ton, and could, with greater drawing power, return 70 tons. As these remarks are made founded upon the opinions of first-rate practical men, who have been down the mine, we hope they will induce the shareholders to erect at once the machinery required. Near to Herodstoot, a discovery of lead was made, at Herodscombe, which, in the early part of the year, created a great sensation, and shares reached 10l. premium upon 10s. paid. From an adit level, 400l. worth of lead were raised; and great confidence existed that the lode would also be found rich at a deeper level, and so isted that the lode would also be found rich at a deeper level, and so isted that the lode would also be found rich at a deeper level, and so make a lasting mine of it; but expectations were disappointed—the lode cut, about a month since, was poor, and, to the present time, has not shown the rich appearances of the adit. Great Rough Tor Consols is being worked in a most spirited manner by the largest proprietors in Devonshire Great Consols. Two perpendicular shafts are in course of sinking to cut the lode at 60 fms. deep; but a cross-cut will be driven at 40 fms. from surface, presented appearances similar to the Great Maria lode. Wheal Mary Ann Lead Mine, adjoining Trelawney to the south, and on the same lode, is about paying the working cost, and is confidently exthe same lode, is about paying the working cost, and is contidently expected, ere long, to pay profits, although 1000l. have to be paid to the lord of the mine before the shareholders can derive any benefit from them.

With regard to Ireland, although allowed by all to possess mineral in indance, and facilities for mining operations equal to any other country no progress seems to have been made in bringing its resources to market The disturbed and distracted state of the country seems to shed its evil influence, not only over the land, but beneath it. It is a pity that such should be the case; the success of the Holyford Company should stimulate others to exertion. Of the Irish mines now at work, and belonging to others to exertion. Of the Irish mines now at work, and belonging to London companies, the Barristown drags on its weary existence, paying its way to be sure, and finding in its levels enough to pay the salaries of officials; but, surely, more than this should be done by a mine returning 30 tons of lead per month, and capable, if reports are to be credited, of doing much more. The Kilbricken Mines—sold by the Crockfords to the present company for a large sum of money, upon representations which do not appear to have been borne ou—nay, so far as they have gone, be pronounced a failure; whilst the statements affoat, in regard to them, do not, we are sorry to say, reflect much credit upon those who were instruental in getting the shares to a premium. One of these, we are told, has altogether backed out of the concern. It would be interesting to the public to know—and we think they have a right to ask—how much Mrs. Crockford really received for her half of these mines. It is no secret, that the incoming adventurers were charged 5000l. The hon. Member for Bodmin being a director, can, perhaps, enlighten us upon these matters, although we will do him the justice to say, that we believe he has been more the deceived than the deceiver. The representations made by the directors, to

we will do him the justice to say, that we believe he has been more the deceived than the deceiver. The representations made by the directors, to induce the present company to pay such an enormous price for half the mine, were, if we are rightly informed, that only greater steam-power to drain the mine was required to enable it to pay large and immediate profits; and that, when the water rose so as to stop the workings of the Crockford's, there was a very rich lode at the bottom.

We referred, last year, to the Cairnsmore Mine, in Scotland, belonging to the Kirkcadbrightshire Mining Company in London, as likely to well repay the outlay upon it; and we can only now add, that, whilst the mine, for so young a concern, has been returning fair quantities of lead, the reckless and extravagant expenditure upon it have prevented the shareholders at present from reaping the profits they expected. This is to be the more regretted, inasmuch as it destroys confidence in mining out of the control of personal inspection. The mine is returning about 30 tons of control of personal inspection. The mine is returning about 30 tons of lead per month, but which does not meet the cost. Arrangements, however, are in contemplation which will not only greatly reduce the exponditure, if carried out, but enable the returns to leave a profit. The Galditure, if carried out, but enable the returns to leave a profit. The Galloway Mining Company—an offshoot of the Kirkcudbright Company—have a promising mine, and which can be proved at trifling expense. In other parts of Scotland, particularly in the neighbourhood of Ayr, large discoveries of copper have been made; indeed, the inhabitants, if we may believe all we have been told, have been so ignorant of the riches in their grasp, that they have for years, been building their fences with ore, yielding 7 per cent. of copper! This is to be worked by a private company at present—whilst the mines at Carwinning Hill have been brought out by a company in 2000 shares, and which already command a high premium on the Stock Exchange. They are, we are told, introduced under the auspice of the party connected with the Dutch-Rhenish; and the shares will, there fore, most probably rise in price. Whether the ultimate results will tend to strengthen the public confidence in mining, or not, time alone will show.

Of Australian mines, few, at present, have been profitable to the English capitalist. The Burra Burra, which has yielded returns almost equal to our Maria, is held chiefly by colonists, as are also the Kapunda, Montacute, &c. The Australian Mining Company, though they have spent 40,000l. in buying land, &c., and are calling for 10,000l. more, do not seem, at present, to possess any quantity of mineral discovered, though the prospects are said to be good. The last reports received from the colony, we believe, state that a lode, 15 in, wide, composed of grey carbonate of copper, has been found, and from which much is expected. Of English companies, the Barossa Range seems to hold out the greatest prospects of companies, the Barossa Range seems to hold out the greatest prospects of success; the outlay has been trifling, and the company are in possession of three mines—from one of which, the Greenock Creek, ore of a rich quality is said to have been discovered, and several tons raised. The other mines at Lynedoch Valley, and adjoining the Kanmanto, also hold out fair prospects.

Lynedoch Valley, and aujoining the been taken up during the year by Lon-In Wales, several mines have been taken up during the year by Lon-don parties; and we have no doubt many more would have been brought don parties; have received favourable notice, had not commercial affairs don parties; and we have no doubt many more would have been brought forward, and have received favourable notice, had not commercial affairs thrown such a damper upon speculations. In other times, their prospects would not only have commended, but warranted, favourable notice. Among the most prominent of the new concerns at work are the Dwngwm and the Bwlch Cwmerfin.

Foreign Mines.-The dividends declared, but not yet paid, on foreign nines during the year, have been-Per Share. Amount Paid. £6700

This list shows a falling off, as compared with 1846, of 36,3931. 108. This arises chiefly from Cobre, Santiago, and United Mexican, not having divided any profits this year. The chief business in foreign shares has been in Real del Monte, Bolanos, United Mexican, Alten, Copiapo, Mocaubes and Cocaes, and St. John del Rey, although the prices are much lower than they were at this time last year. Del Montes have fallen from 4 to 1½, and Bolanos from 6½ to 3½, chiefly owing to the disturbances in Mexico; but the best informed on the subject do not apprehend danger to mines the property of English subjects in whatever way these disturbances may terminate. We alluded, a year or two since, to a company, formed for working mines in Guatemala, under the name of "Chiantla." This has been broken up during the year, to the great disappointment of those who were led away by the over sanguine expectation of the projectors. We are not advocates for mining so far from home, where the shareholders are necessarily at the mercy of their agents, more especially, too, when so much ground remains unexplored in Cornwall and Devon.

In conclusion, although this article has run to much greater length than This list shows a falling off, as compared with 1846, of 36,3931. 10s. This

In conclusion, although this article has run to much greater length than we anticipated, we cannot refrain from briefly remarking that, against evil report and good report-against the rage of railway speculation which, at report and good report—against the rage of initial spectration which, at one time, absorbed the attention of all—mine investments have worked their own way, until they have become an important feature in commercial transactions. Many of those who have so long been wedded to the prejudices against mining, have, through inquiry, become its supporters; and, so long as openness and candour exist among agents, economy and skill among managers, and confidence among all, we shall find the mining maker strong until its angestions will take the lead of legitimate spectra market extend until its operations will take the lead of legitimate specu-lations. Prince Albert has become a miner—the United Hills, Wheal Charles, and South Towan Mines, are now united under Koyal patronage. Let us hope they will not only prove remunerative, but induce others to follow the example of his Royal Highness. We can only add, may the new year prove prosperous to "One and All."

PRODUCE OF THE PRINCIPAL CORNISH COPPER MINE FOR THE QUARTER ENDING DEC. 25, 1847.

Mines. No. Ti	cketings.	Tons		Amou	102#	
Devon Great Consols						6
Carn Brea	3	2831	*****	19782	ii	0
United Mines	3	3036		13460	0	6
	3				7	6
	6	1750			3	6
Fowey Consols	6	1577	*****			0
Wheal Seton	3					6
Wheals Prosper and Friendship	5	1251		8162		6-
North Pool	3	1682			10	0
East Wh. Crofty, Dudnance, & Longclose	2	1077				0
West Caradon	3	914		6100		6
	3	1580		5521		6
South Wheal Francis	3		*****	5347		0
North Roskear	1	924				6
	3	1036	*****	4618	8	6
Stray Park and Camborne Vean	2	997	*****			0
	3	355	*****			6
	3	499	*****			0
United Hills and Wheal Sparrow	3	618	******	2664		6
Treleigh	3	448				6
Treviskey and Barrier	2	436		2367		6
Domin St Cooper and Polonne	2		*****			6
Condurrow. Wheal Tremayne Wheal Ellen Marke Valley	2	464		1797		6
Wheal Tremayne	3	289	*****			0
Wheal Ellen	2	223	*****		15	6
Marke Valley	2	523	*****	1558		0
Wheal Bucketts Grambler and St. Aubyn	3	362				0
Poldice	2	372 255	******	1441 1		6
Levant		174		1275	1	6
Wheal Sisters	2	248				6
Trethellan	2	370	*****	1145		0
Lanivet Consols	3	276				6
	2	283				6
North Wheal Basset	3	168			10	0
Wheal Agar	3	222				6
South Roskear, wh. Chance and Gerry	1	168			2	0
Andrew and Nangiles	3	172 278	*****	998 1	8	0
Holmbrigh	2	170				0
Creechraws	1	180				0
Wellington Mines	2	79				0
South Wheal Fortune	2			715 1		0
Wheal Jewel	1	119		638 1		0
Wheal Rodney and West Prosper	2	201				0
Wheal Comfort	1	247		625	4 (0
West Wheal Treasury		91		500	3 (0
	1	120		465	3 (,
Wheel Muiden	1		* * * * * * *	427 1 387		
Wheal Maiden				382 1		9
South Tolgus	1			370 1	- 1	
South Tolgus Gwinear Consols					9 (
Wheal Jane	3	102			0 (
BottaHack		59		287	4 6	3
Wheal Mary Consols				241 1		
Gonamena					5 (
East Seton		44	*****	223 1 190 -1		
Whoul Prudence		88			9 (8	18
Wheal Harriett St. Ives Consols East Relistian		57			5 (
St. Ives Consols 1					6 (
East Relustian 1	*******			162 1		
East Relation Trenow Consols Wheal Henry Wheal Vyvyan Wheal Fusy Spearn Moor Wheal Ayr Tokenbury West Trathellm	********	34		143	4 ()
Wheal Vyvyan		30	*****	135 1		1.400
Wheal Fusy		89		117	3 6	1
Spearn Moor		12		108	6 6	
Wheal Avr		20		104 1		
Tokenbury		28		102	4 6	
West Trethellan				100 1		
West Trethellan West Basset Ting-Tang	1	20		94 (0 6)
Ting-Tang		35	*** **	90 13	3 6	
Polgooth				79 1		2319
Wheal Union		10		72 10		
Wheat Ruby		11		69	4 6	33
Tretoil		32		60 1	8 6	17
Tretoil		11		58 1		
St. Agnes Consols		7		7 1.55 Million	6. 6	
St. Austell Consols 1		21		47 1	5 6	
East Downs		7		42 1 37 1		
Wheal Venture			*****	37 1	0 1	1
Wheal Darlington				32	3 6	100
Hawkmoor		8		24 (9 6	350
Wheal Buller		6		19	4 6	9-55
Wheal Rose		4		15 15	2 0	1020
Wheal Ann		2	*****	14 17	7 0	
Wheal Ann		6		14 8		
Wheal Tolgus		4	*****			330
Pembroke		1		10 17	1	羅
Goonvrea		10		IQ 12	0	24
COUNTY OF THE PARTY OF THE PART	1-1-6-6	10	* J. (2/2)	1000	-	1.

PROGRESS OF FRENCH MINING INDUSTRY.

The speech, which Louis Philippe delivered yesterday, on opening the ssion of the French Chambers, contains one line, which falls within the domain of the Mining Journal-that which mentions that a bill, for effecting certain Customs reforms, is already before them. This, I presume, may be taken as a proof, that the Government means to proceed with the bill, notwithstanding the committee, to which it was referred, has reported against the most important provisions of it—that is, against those which abolish the duties on iron, copper, zinc, &c., for shipbuilding. If the Government do that, it will render a great service to the shipping interest in particular, and to the nation at large—to the former, by raising the mercantile navy from the deplorable state into which it has fallen—to the latter, by giving the first blow to the hateful menopoly of the iron-masters—a blow which will so shake their monopoly, that it will assuredly, sooner or later, crumble to pieces; for it will be impossible long to refuse cheap iron to railways, to manufactures, and to agriculture, when it is given to dockyards. Should the Government persist with this bill, I have not much doubt that it will be carried, notwithstanding the monopolists are extraordinarily strong in the Chamber; but to obtain success, the Government must be in earnest. It must be able to withstand bitter assaults from all sides, and all parties—it must even be prepared for the defection from all sides, and all parties—it must even be prepared for the defection of some—nay, many—of those who are now its most devoted supporters. Can such sacrifices be expected from the present Cabinet? Let us hope that they may, especially as the public interest imporatively requires them. Whether, however, the Government be in earnest, or not, one thing is certain, that a stout battle will be delivered against the iron monopolists; and this alone will suffice to make the session one of very great interest to the this alone will suffice to make the session one of very great interest to the

class of which your Journal is the organ.

It is some time since any notice has been taken of the Great Coal Company of the Loire. The last you heard about it was, that an arrangement was in progress, for putting an end to its squabbles with the town of St. Etienne. The basis of the proposed arrangement was this:—1. That the company should be constituted into what is called a societé anonyme, which is somewhat similar to a regularly sinceprograde downany in England. company should be constituted into what is called a societé anonyme, which is somewhat similar to a regularly-incorporated company in England.—

2. That it should undertake, that the price of coal, throughout all the department of the Loire, should never exceed the average of the selling price of the company's coal in other departments, and that a reduction of 10 per cent, on this selling price should be made in favour of the town of St. Etienne, and of the district comprised within two kilometres of its octroi. This arrangement appeared satisfactory to both parties—to the company, by placing it on such a firm and regular basis, as should cause the public to place every confidence in it; and, at the same time, to afford full security to its shareholders—to the consumers of coal, by placing them out of the reach of any unjust exercise of the great power which the company possesses, from holding the greatest portion of the richest coal field of France. The Government, on its part, considered the arrangement perfectly satisfactory; and after several of the principal Ministers had had personal communications with the chiefs of some of the leading manufactories of St. Etienne, it was determined, in a Cabinet Council, that the company should be at once constituted into a société anonyme. The fact of a Cabinet of St. Etienne, it was determined, in a Cabinet Council, that the company should be at once constituted into a société anonyme. The fact of a Cabinet Council having deliberated on this matter, will show to you the immense importance which is attached to the company in this country. As regards the Government, the thing may be considered at an end—it consents to the company being turned into a société anonyme. I am not aware whether at this moment the royal ordinance, which is necessary for the transformation of the company, be actually signed; but if it be not, it is only a simple formality, which may be adopted any day.

Here, one would have thought, the matter would have ended, and that we should have heard no more about the quarrels of the company, and the St. Etienne folk: but the fact is, that the two adversaries, after having

we should have heard no more about the quarrets of the company, and the St. Etienne folk; but the fact is, that the two adversaries, after having come to an agreement, appear to have fallen out more bitterly than ever; and the last numbers of the St. Etienne journals, which have reached me, are making war on the company as fiercely as of old. Why?—wherefore? Truly, I know not; and all my attempts to get at the bottom of the mystery, have been fruitless. All that clearly appears is, that the mayor of St. Etienne, acting in the name of the municipal council, and of the whole population, have thought right to protest against the company being constituted into a societé anonyme, and this protest he has communicated to the Government. It further appears, that he demands nothing less than that the company shall be dissolved, because he still maintains that it is illegal. Having communicated what he had done to the Municipal Council of St. Etienne in its last sitting, a vote of thanks was carried to him, and the committee, consisting of members of the council, which was specially formed, to oppose the company. This committee, by the way, has been dissolved, by order of the Government, as contrary to the law. In the sitting referred to, some members of the council insisted that it should be reconstituted. This led to a stormy debate, and eventually the motion was withdrawn—its mover, however, threatening to bring it forward at the next meeting; and this appears to be the position of things at this moment. the St. Etienne folk; but the fact is, that the two adversaries, after having

It remains to be seen whether the Government will pay any attention to this new outbreak of hostility, and whether this new opposition be the act of the great manufacturers of St. Etienne, who alone have the right to speak in the name of the town, or only the stupid meddling of a knot of brawling demagognes. On these points we shall receive full information, in the course of a few days,

As many Englishmen are interested in this great company, it may be as well to warn them not to attach more importance to the facts here related than they are really worth. As to the protests of the mayor of St. Etienne about the illegality of the company, they are all twaddle. The man might as well assert that the company is made of green cheese, as that it is illegal. The most eminent advocates of the French bar have declared, over gal. The most eminent advocates of the Grench our nave declared, and over again, that it is perfectly legal; and the Government itself has declared, that that point is so clear, that no discussion can be allowed respecting it. The only well-founded objection that can be made to the respecting it. The only well-founded objection that can be made to the company is, that it is virtually a monopoly—that it possesses about two-thirds of the largest and most productive coal-basin of France, which enables it to fix what price it pleases on coal. But does not this objection cease to exist when the company itself offers guarantees that its price shall not exceed what is fair? What, then, can its opponents expect? I have heard say, that M. Lanyer, the deputy of St. Etienne (the same worthy who, in the name of the Committee of the Chamber of Deputies on the Contours Bill has reported against any reduction of the duties on iron or who, in the name of the Committee of the Chamber of Deputies on the Castons Bill, has reperted against any reduction of the duties on iron or oal), asserts, that nothing less will satisfy him than an undertaking from the company to sell coal at exactly the cost price! At the cost price!—
ould a more absurd proposition be made? Poor M. Lanyer is not very right; but I hope, for his own sake, that he cannot have been serious in taking such a very stupid declaration.

Rumonry are affect that the Gavernment intends to take the manufac-

Rumours are affoat that the Government intends to take the manufac ture and sale of salt into its own hands—to make that article a monopoly, like tobacco, and gunpowder. Although Government monopolies are always objectionable, and always more or less oppressive to the people, the French would, no doubt, rejoice at such a measure, provided it should enable them to obtain cheap salt. The present enormous duty makes it virtually as a wide of the property of the pr tually an article of luxury, so much so that thousands of families are thally an article of fuxury, so much so that inclusions of namines are almost deprived of its use. A reduction is, however, as I have already informed you, to be brought forward in the course of the present session.

The Northern Railway has, I perceive, already commenced the conveyance of coal from the pits of the northern departments, and from Bel-

gium, in waggons specially constructed for the purpose. These are shuilt that they can be placed on framework, whereby the coal is loaded a the pit's mouth, and delivered to the consumer, without having to be trans

the pit's moun, and denvered to the consumer, without having to be transferred from waggon to waggon.

The following appear from official returns, just published, to have been the importations made into this country, during the first eleven months of the present year:—Copper, from England, 37,103 metrical quintals (ten metrical quintals are about equal to the English ton); from Chili, 10,681; from other places, 23,859. In the same period of 1846, the importation from England, 40,638; from Chili, 8900; of 1846, from England, 66,872; from Chili, 1900. The formers are vary from the place flowers are vary from the place flowers are vary for from place flowers. from England, 40,638; from Chili, 8900; of 1846, from England, 66,872; from Chili, 1890. These figures are very far from being fluttering to our exporters. Of tin, the import, in the eleven months this year, has been 15,036 met. quin; of lead, 10,741; of zinc, 139,470. Of coal, the total was 20,822,008 met. quin; 13,545,547 being from Belgium; 5,423,270 from England; 1,846,365 from the Zollwerein; 6886 from other places. In the corresponding period of 1846, the quantity received from Belgium was 11,394,455; from England, 6,125,853; and, in the same period of 1845, from Belgium; 12,403,155; England, 5,702,078. Of cast-iron, for 1847, the total quantity received was 887,211 met. quin.—of which, 282,847 met. quin. came from England; 558,996 from Belgium; 45,368

from other places; in 1846, England sent 391,561 met. quin.; Belgium, 401,497; in 1845, England, 200,211; Belgium, 266,899.

This has been a very dull week for mining matters, and, indeed, for business of any kind. The French are busily preparing for their grand holiday on the 1st., which is even more to them than our Christmas day.

The St. Dizier journals do not, this week, publish the prices of iron.

A German newspaper states, that the Government of Denmark has determined on having the coal pits in the Faro Islands worked by convicts. The coal-field, it is said, is six miles in length, by two in width. The dearness of conveying coal has, hitherto, prevented the mines from being worked.—Paris, Wednesday.

BELGIUM.-Some remarks having been made in the Chamber of Representatives on the small amount received by the Government as rent for mines, the Minister of Public Works entered into some explanations to show that the present rent was as high as mining enterprises could fairly be expected to pay; and he stated that, in the province of Hainaut 58 mines are worked at an annual loss of about 87,000*l*. whilst only 48 are worked at a profit of 163,000*l*.; that in the province of Namur-18 are worked at a loss of nearly 4000*l*, whilst 15 yield a profit of about 6000*l*; and that in the province of Liege 44 are carried on at a loss of 54,000*l*, whilst 40 yield a profit of only 46,000*l*.

The manufacture of cannon in this country is very considerable. 846, one house at Liege turned out 9605, another 53,765, a third 17,948 fourth 11,548, and a fifth upwards of 10,000.

It is stated that the metallurgic branch of industry has found a new It is stated that the metallurgic branch of industry has found a new opening for its activity in the manufacture of crosses in cast-iron for churches and cemeteries, the consumption of which is, as your readers are aware, exceedingly great in Catholic countries. One establishment has just cast a cross, weighing nearly a ton, for the church of a village in Holland It is understood, that the English Government is in negotiation with the Government of this country to obtain concessions in the duties on cast-iron and coal, in return for which it offers facilities to the introduction of

Belgian products to the English markets; and it is believed that Belgian Ministers are well disposed to cut down the charges on those articles in the Belgian tariffs. On the importation of cast-iron in particular, the duty is excessive and very burdensome to the country, the Belgians having almost as much need of our cast-iron as the French have of theirs. On coal, also, the import duty is at present much greater than there is the slightest necessity for; inasmuch as with such coal-fields as Belgium possesses, it accessity for; masmuch as with such coal-fields as Beigium possesses, it need not dread any competition. I scarcely need remark, that a reduction in the cast iron duties would be of great importance to the exporting trade of England; for it would invariably lead to a very large demand. A reduction on the coal duties, also, would be advantageous to our coal owners, though, for the reasons just stated, not to the same extent. The osed for cast-iron is, it is said, nearly two-thirds.

Belgium, like France, suffers from a heavy duty on salt; but the Go-ernment resists any attempts to lower it.

The exportations made in the first 11 months of this year have been:— Coal, 1,695,029 tons; cast-iron, en gueuses, 105,232 tons; cast-iron, worked, 342,826 kilos.; articles in iron, 874,102 kilos.; nails, 4,920,128 kilos.; rails, 3939 tons; arms, 4,114,721 fr.; machines, &c., complete, 1,803,007 raus, 3939 tons; arms, 4,114,721 fr.; machines, &c., complete, 1,803,007 kilos.; ditto, in detached pieces, 913,583; zinc, unwrought, 4,405,162 kilos.; ditto, wrought, 1,850,289. With the exception of rails and machines, the increase, compared with the corresponding periods of 1844 and 1845, is very considerable.—Belgium, Tuesday.

Original Correspondence.

COMMUNICATION BETWEEN GUARDS AND DRIVERS OF LOCOMOTIVES.

COMMUNICATION BETWEEN GUARDS AND DRIVERS OF LOCOMOTIVES.

Sir,—I beg to suggest, as a means of obtaining instantaneous communication between guards and drivers, the adoption of the principle of the well-tried and secure expedient of the steam whistle, which can always be heard above the roar of train and storm. In order to carry out this suggestion, which is by no means new, I propose that every guard shall be provided with a compressed-air whistle, fixed close to his seat on the carriage, and constructed in such a manner as to equal in loudness the regular engine whistle—while the greatest facility must be afforded for filling and changing the reservoirs of compressed-air. The form of the reservoirs would, of course, be that of a strong metallic globe, precisely such as was formerly in use for air-guns, connected with a pedestal, fixed on the roof of the carriage by means of a screw joint. The whistle may either be of the kind now in common use, but accompanied with a parabolic addition, intended to intensify and direct the sound wholly towards the engine-driver—or, still better, perhaps, for compressed-air, of the form of a common French whistle, which also has a surrounding globe to reverberate the sound. An ample supply of ready charged globes should be kept at all the stations, conducted on the plan followed in the lamp department, with proper regulations and fines for neglect—so that the guards should never start a train without being provided with one full globe ready for action, as well as two or three reserve globes for substitution, in case of exhaustion or failure. There is no difficulty in constructing metal globes of sufficient strength to stand a pressure equal to that of high-pressure steam: neither will there be any difficulty in providing compressed air constructions. exhaustion or failure. There is no difficulty in constructing metal globes of sufficient strength to stand a pressure equal to that of high-pressure steam; neither will there be any difficulty in providing compressed air for charging the globes. At all principal stations and water-houses there are pumping engines, which, by a very simple adaptation of machinery, may be made to work a triple set of forcing pumps, each compressing the air (say) to two atmospheres, and working into each other, according to a lately proposed and very ingenious plan, so as ultimately to produce a condensation equal to six atmospheres, which would be more than sufficient for all purposes and under any circumstances. The condensing pumps should work into a strong reservoir, furnished, of course, with safety valve and pressure gauge, and also provided with screwed nozzles and stop-cocks—so sure gauge, and also that the portable globe and also provided with screwed nozzles and stop-cock sure gauge, and also provided with screwed on and filled instantaneously, if required—the reservoir and globes being all proved before use to double the amount of pressure, they may be likely to sustain when in use. All the joints can now be made absolutely and permanently tight by means of vulcanised India-rubber, or gutta percha washers. No apprehension need be entertained in regard to mistakes as to the meaning of such signals, as be entertained in regard to mistakes as to the meaning of such signals, as the signal is always a warning; and a good understanding is sure to take place between the guards and drivers in respect to their management. The same means will furnish a very simple and effective mode of communication between the passengers in a train and the guard, by having a compressed-air whistle permanently fixed to the roof of each carriage, with one or two lines and tassels hanging within, and communicating with the spanners of the respective whistles by means of the usual chains, pulleys, and bell cranks.

H. W. Revelley, C. E. H. W. REVELEY, C.E.

Sunny Hill, Parkstone, Poole, Dorset, Dec. 28.

GUN-COTTON EXPLOSION.

SIR,—Anent the remarks of Dr. Murray, on the mystery enveloping the cause of the explosion of this material at Mossrs. Hall's establishment, I would observe, that I volunteered to explain and prove to Messrs. Hall, about the time of the inquest, the nature and cause of the explosion, withreceiving any reply. I can dry two parcels of gun-cotton, at 130°, without any danger of explosion, and repeat the experiment in another way, either at the temperature of 130° or 100°, with certain ignition of one parcel primarily, and the other secondarily. My opinion is, that the intermeddling by myself, Dr. Murray, or any one else, will be deemed by Messrs. Hall at least impertment, for which reason I have never deemed by the property of the Messrs. Hall at least impertment, for which reason I have never deemed it worthy of any public rationale, or notice. It is somewhat ridiculous to read the instance with which Dr. Murray solicits Messrs. Hall to abandon the course of a certain pecuniary fortune. Although I cannot view this paragraph else than an unnecessary scrap, to gratify the call of our friend, Mr. Mushet, made a short time ago, when Dr. Murray is deemed the fittest person to prove the universality of the Biblical Cataclysm; but, on the other hand, Dr. Murray is certainly to the point about the disintegrating action of frost, &c., on brickwork, and, methinks, he has given the "eminent engineers" a bone to pick. Perhaps Mr. Mushet will translate this beautiful bit of Italian—"Ed in sul tempo del vespro, la Colomba ritorno a lui, ed ecco! Nel becco una fronde spiccata d'un Étics." and reconcile this fact, with the other fact, that from numberless experiments it has been found, that an olive tree cannot survive un aqueous submergenée of six weeks; and these two facts, with the duration of "the deluge," which Mr. Mushet is anxious Dr. Murray should task himself to prove, was uni-Mr. Mushet is anxious Dr. Murray should task himself to prove, was universal! As an element in this reply, perhaps Mr. Mushet will state, where in latitude and longitude the Perihelion point was in the epoch of the deluge, and whether its progression was southward or northward, just before this cataclysm. What will Mr. R. Mushet say in reply to my assertion, counter to his, that the so-called imponderables are not only equally influenced by physical forces, with matter generally, but that their material and ponderable constitution may, with certainty, be inferred from the idendity of their behaviour, in respect to the operation of common forces.

Barnsbury-park, Dec. 31.

WILLIAM RADLEY, Ch. E.

EXPLOSIONS OF STEAM-BOILERS.

Sir,—In continuing, from last week's Number, my reply to "An Engineer," I shall, first, take his assertion, relative to the steelyard safety-valve being the most convenient form, and that universally adopted. The convenience of form is only useful as being conducive to those practices, which company has to expend to the properties. convenience of form is only useful as being conducive to those practices, which cannot be too severely reprobated. By way of illustration, let me, for one moment, bring before your readers the Crichet, as she existed prior to the 27th of August; take her laying at Dyer's Hall Pier, steam blowing from the weighted valves into the funnel, and good fires; the spunyarns at the end of the safety-valve levers. We have now only to imagine some person in charge of her engines, whose capabilities for the efficient discharge of his duties and the safety of the public were on a par with Henseman's predecessors. He hears that the Citizen A—which has, probably, beaten his vessel in her downward passage—will start for the west end; at the same time as himself; application is immediately made to the spunyarns, and the valves secured. He has heard that the boiler has previously been loaded to 80 lbs. to the inch, by Mr. Joyce's people, and worked at such pressure—about double that indicated by the gauge. He does not know the amount of error of his gauge, and, consequently, imagines that he is perfectly safe, until the gauge indicates 80—his real pressure being about 140; it is only in similar cases that this convenience of form is useful to such parties. The valve instanced by me is of a similar form to that rendered, by law, in Belgium imperative—and is adopted by sure being about 140; it is only in similar cases that this convenience of form is useful to such parties. The valve instanced by me is of a similar form to that rendered, by law, in Belgium imperative—and is adopted by other makers; and not the peculiar arrangement of Mr. John Penn, who, we are told, is a "ival manufacturer" (?) We will next test the truth of its universal adoption. To do this, I will take the vessels plying on the Thames above Gravesend—their number amounting to over 90; and those stealward layers of universal adoption according to "An Engineer" will Thames above Gravesend—their number amounting to over 90; and those steelyard levers, of universal adoption, according to "An Engineer," will be found in the following vessels:—Waterman, 9, Locomotive, Eclipse, Vivid, Era, Echo, Citizen M, Cricket, Ant, Bee, Sunbeam, Rainbow, and Prince of Wales. In 92 vessels trading on this river, the steelyard arrangement of valves only amount to 12, 25 per cent. of which belong to the Ant and Bee Company: this is very far from universal adoption. There may be added some few tugs, which also use this convenient form; as also the vessels constructed by Mr. Napler, of Mill Wall; but their use cannot be too soon abandoned, The accidents that have arisen from sizelyard levers are numerous; the Cricket's being, I fear, not the last on the list.

Ant and Bee Company: this is very far from universal adoption. There may be added some few tugs, which also use this convenient form; as also the vessels constructed by Mr. Napier, of Mill Wall; but their use cannot be too soon abandoned. The accidents that have arisen from sæelyard levers are numerous; the Cricke's being, I fear, not the last on the list.

With regard to the construction of the Marriotte gauge, the only fact required to be known is, the law of the compression of gause—which, although generally attributed to the investigations of the philosopher Marriotte, is, in reality, a discovery of our own connections, the law of the compression of gause—which, although generally attributed to the investigation of the compression of gause—which, although generally attributed to the investigation of the conformation of the control of a dothers, of which the archives of our various scientific bodies bear ample record. The most usual form of pressure-gauge employed is a small bent tube, containing mercury, of a form similar to the annexed sketch, provided with two bulbs, and filled with mercury. I most usual form of pressure-gauge employed is a small bent tube, containing mercury, of a form similar to the annexed sketch, provided with two bulbs, and filled with mercury. I have been dead to the compressed into a first its original bulk, or 9 in, at a pressure sequal to 45 lbs., into a space of 44 in; and, on the pressure increasing to 10b bs., the mercury will be compressed into a space not exceeding 24 in. But few thoroughly uncerstand the construction of this gauge, although extremely simple; objections have been urged against its adoption; but, with ordinary care, and when not made intentionally erroneous, it may be relied on with certainty. It was stated to me, as a cause of the erroneous action of the gauge in the Oricke's the high temperature of the engine-room; and only shows how causing a definition of the gauge in the Oricke's, the high temperature of the engine-room; and only shows how causing a cont

Amount indicated by Amount shown Less than the real pressure in boiler. Lbs. pressure in boiler. 45 50

who have undergone some camination as to their expansions are the ready of the public, and establish some board before which all engineers, before obtaining employment, undergo a most rigorous examination.

Had such a state of things existed, should we have had this lamentable accident—lamentable, as causing the deaths of many individuals, and most injurious, as affecting hefinances of a scientific gentleman, who has done much to deserve the them the strong of this metropolis? The accident did not arise from defects of principle, the application was most ingenious; and it cannot be but regretted, by all who have the well being of mechanical pursuits at heart, that such an occurrence should have happened, tending to damp the ariour of gentlemen, without whose capital and enterprise the mechanic arts would progress but slowly. The defects in carrying out the principles have been the came moying to the accident, combined with the employment of men totally unfitted for their situation—the superintendent engineer was evidently one of this class, his knowledge of the most mediocre description. Where was the amount of practical experience that ought to have been in his possession—where the vessels in which he had been cemployed? The public safety and welfare demands that some board be established, for the supervision of our mercantile steam marine. Italiways are subjected to inspection—why are steam-boats excluded? The lives of the public are are available in the one case as in the other. When such a board is established, which probably will not take place until another appalling accident bring the matter before the Legislature, we should then have a total reformation of steam-boat management. Engineers of ability and sobriety would alone be employed; the class at present known as shored engineers would find their proper level, and the finances of all steam-boat proprietors increased to an extent that would surprise them. Lean's Monthly Reporter, of the performance of Cornish engineer, given in your Journal, has done

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been tak broker. one from another in and call a long re no summ been a rinto note mend its mend its vertiser, graph, b for whice of a teleg given notion, and clerks, w by them cumstan had been before the the rest, bribing t under th additional pound added for every two inches of compression, due to the elevation of a mercary. By shifting the index—the work of an instant—up to the point shown by e dotted fine, the erroneous results shown by me in the letter to Lord Chief Justice numin is accomplished. The two bulbs are for the purpose of preventing any conterable fall of ingrenry at 01—they acting as reservoirs.

H. WHITLEY BAKES. Park-trave, Batterson, Dec. 30.

THE LIGHTHOUSE ON THE GODWIN SANDS.

SIR,-Mr. J. De la Haye is perfectly right in his remarks respecting the ron piles. Certainly no one could for a moment suppose that a treble row could be driven with such precision as to prevent the water from rushing into the foundations between the joints. It must be remembered that, in coffer-dams, even where there are three rows of piles, each being 6 ft. apart, and the spaces between well filled in with puddle—even with these precautions—the water, which has found its way into the dam between the piles, has kept a 20-horse power engine at full work. This I know to have been the case at the Pesth Suspension Bridge, in Hungary, in each of the coffer-dams. From what I have seen at that bridge, I should say that twould be folly even to attempt a foundation without first sinking a cylinder to give a sufficient basis for the intended structure. Your correspondent, "M.," in your last Journal, appears to have fallen into a delusion, as many others have done, whose object has only been to erect a beacon. What use is a mere beacon? Something should be erected substantial, where, in case of an accident, the crew could find comfortable accommodation to receive them. What apartments could a 7-ft, pile furnish? Again, in case of a vessel being driven against such a structure, se that proposed by "M.," it would not be able to resist the shock, and, therefore, must prove an abortion. The chemical action of the marine acids on cast-iron altoow could be driven with such precision as to prevent the water from rush-

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case of a vesset being driven against such a structure, is that proposed by "M.," it would not be able to resist the shock, and, therefore, must prove an abortion. The chemical action of the marine acids on cast-iron altogether assures us that cast-iron structures at sea are highly objectionable. The following fact may not be generally known among your readers, that, during the clearage of the wreck of the Mary Rose, which had been sunk at Spithead, and had lain under water for 150 years, all the cast-iron shot which were taken out of her, on being exposed a few days to the atmosphere, became red hot, and, in a short time after, fell into a fine powder, which had every appearance of black lead. The cause of this, I believe, has not been explained. The base I propose for my lighthouse is 70 ft.—30 ft. the diameter of the cylinder, together with external piles and concrete, would 70 ft.; or I would sink a cylinder 60 ft. diameter, and well secure it with piles and concrete, as before described—say, for the whole, 100 ft. diameter in the centre—should raise the lighthouse, and around its base to the height of 50 ft. above high water-mark; the whole, of which should form a bomb proof fort, mounted by 50 guns, and, in case of emergency, capable of holding 200 men. Such a fort would completely command the channel.—G. Shepherd, C. E.: Fleet-street, Dec. 29.

LIGHTHOUSES ON THE GODWIN SANDS.

SIR,-In the Mining Journal, of the 11th December, you did me the favour to insert some few remarks of mine on the above subject, which has, of late, occupied the attention of several of your correspondents. The suggestions which they contained were given, with the best of feelings, for the consideration of the fortunate engineer who may have the undying honour of being trusted with, and successful in, the execution of this important national work; and yet I am immediately attacked by two of your correspondents—Messrs. De la Haye and G. Shepherd—as if I were some great school-boy, laying plans for building a card-house, or sinking a pigmy well in my tutor's play-ground. To the first of these gentlemen I shall merely say, that, from all I have seen of his lucubrations in your columns, I do not think he is capable of judging whether the term "tyro" is applicable to me or not; and that his pretty little manageable iron cylinder, of 200 ft. diameter, 20 ft. high (when the sands are 40 ft. deep), and half an inch in thickness, is all of a piece with his magnificent project for constructing a railway tunnel, beneath the waters of the English Channel, from Dover to Calais. The entire of his remarks, in your last week's Journal, evinces complete ignorance of the peculiar properties of sand, and want of experience in the construction of works in such an element, more particularly as relates to the local peculiarities of the "Godwin." favour to insert some few remarks of mine on the above subject, which

want of experience in the construction of works in such an element, more particularly as relates to the local peculiarities of the "Godwin."

From Mr. G. Shepherd, who always dubs himself "C.E.," I should have expected better things, and a little more courteous mode of expression towards one who penned not a word in disparagement of his plan for a lighthouse, but rather supported it—merely suggesting a different plan of carrying out the same principle. But Mr. Shepherd, while he indulges in not very compliantary names—and in his letters in general, which

sion towards one who penned not a word in disparagement of his plan for a lighthouse, but rather supported it—merely suggesting a different plan of carrying out the same principle. But Mr. Shepherd, while he indulges in not very complimentary names—and in his letters, in general, which have appeared in your columns, eschews that adherence to English grammar, which one would expect from a well-educated C.E.—now contradicts himself; for, in the same letter in which he tears my plan to pieces, as the idea of a "novice," he says I copied it from his "communication of 27th ult., except his treble row of piles."

It is very evident to me, Mr. Editor, that Mr. Shepherd does not understand the plan I suggested, and that he is one of those slovenly readers who rush through a subject without thinking, and declaim against its author without consideration; or, in the first place, making himself thoroughly acquainted with his intentions; and, notwithstanding the grimace of our Liverpool friend, and the rough banter of Mr. G. Shepherd, I will again, with your permission, endeavour more clearly to describe my meaning. The double row of piles which I suggested (there might be occasion for three) should be 6 ft. apart (there is no objection to that, Mr. Shepherd); they would be east in the form of the are of a circle, so that the faces should meet perfectly fluth; and if dovetailed, or only scarfed or lapped, so much the better. At about every 10 ft. of the circumference, I would drive a cross row of piles between the two circles—thus forming compartments, which would facilitate the clearance of sand, and filling in with concrete (not puddle, Mr. Shepherd), as well as add greatly to the strength of the whole. Notwithstanding my being a "novice" as to coffer-dams, in which, from his remarks, I am satisfied I have had much more experience than Mr. Shepherd, I am clearly satisfied the above might, with proper precaution, be easily carried out; and let the face of the chalk be ever so uneven, a cylinder would be formed, water-tight

CHARGE OF DISCLOSING TELEGRAPHIC EXPRESSES. In our last Number, we inserted a statement, taken from the Carlisle Journal, that a summons had been taken out at Newcastle-upon-Tyne, against Mr. T. F. Dickenson, sharebroker, of that place. We have received two communications on the subject—one from Mr. J. Dickenson, dated Dec. 28, in the absence of the accused—and broker, of that place. We have received two communications on the subject—one from Mr. J. Dickenson, dated Dec. 28, in the absence of the accused—and another from T. F. Dickenson himself, requesting us to contradict the observations, and cuclosing us a copy of the Newcastle Advertiser, in which he has published a long refutation of the charge. In the first place, these gentlemen state, that no summons was ever issued, nor has Mr. Dickenson since received from the company any official communication whatever—that they verily believe it has been a ruse, on the part of the agents of the company, to bring the telegraph into notoriety—a step totally uncalled for, as it has sufficient merit to recommend itself to public notice. In his refutation, published in the Newcastle Advertiser, Mr. Dickenson declares, he has repeatedly received intelligence by telegraph, but on every occasion for his clients, for which he honourably paid, and for which he can produce the receipts. It appears, that during the preparation of a telegraphic subscription-room in Newcastle, to which Mr. Dickenson had given notice of becoming a subscriber, he found it necessary to obtain information, and occasionally applied to the office for such purpose, always paying the clerks, without, for a moment, thinking that the money would be appropriated by them, under a mistaken notion of his motives. He fully explains the circumstance of going with one of the clerks to the Queen's Head Tavern, which had been so much commented upon, and he says, "egregiously misrepresented" before the magistrates. One circumstance appears more exculpatory than all the rest, which is the fact, that the sum Mr. Dickenson is charged with bribing the clerks with, is more than double what he would have had to pay under the company's official and regular charges. We regret having been the means of aiding in the circulation of an unfounded charge, and publish, with pleasure, on the part of Mr. T. F. Dickenson, this refutation. COAL BEDS OF THE RHINE.

There is a map published in the sixth volume of the Transactions of the Geological Society, which will furnish the reader with the best survey of the gigantic highlands which the Rhine traverses in its course between Bonn and

COAL BEIDS OF THE RHINE.

There is a map published in the sixth volume of the Transactions of the Goological Society, which will fariable the reader with the best survey of the gignatic highlands which the Rhine traverse in its course between Boan and Mayence. The rocks of old formation are there shown to have been upheaved in immones meases, which may be compared in extent and character to Wales. The Ruhr, like the Severn, runs between the old rocky mountainous tracts, and the new formations, containing the coal measures and said deposits. But the Rhine cuts the great highland into two parts, the northern half lying between Rhuhr and Lain, white he southern less between the Mass and the Naho Lain, great highland into two parts, the northern half lying between Rhuhr and Lain, white he southern less between the Mass and the Naho Lain, great the southern less between the Mass and the Naho Lain, and the Rhine the Saratruck lies on the southern declivity. To the east the valley of the Lenus marks it is subsidence to terriary formations of recent linestone and accompanying rocks, and in the indeutres formed by the Lain, and the Rhine between Rhuhrert and the Drachersits similar rocks also these recent formations disappear, and the river seems to have eaten its way between old slaty rocks, that formerly stood in connection with each other. The irregular masses presented by the rocks that overhang that part of the river speak as imposingly to the scientific, as to the sentimental, traveller, and the transact heart which raised such immense masses without at all crystallings them. In the dislocations and ruptures formed during this great natural convulsion, the vois of metal that traverse these libils in all directions were, with their accompanying mixtures, inditered into their present locations. The hills that look as barren to the traveller's eye possessor a deeper interest than that the recent of the country that he have made the processor of the country that the have been formed to the country that the processor o

THE IRON TRADE IN SCOTLAND.—We hear the blast-furnaces of the Ayrshir Iron Co., at Dalry, are to be stopped—an announcement which has caused much dismay in the district, as a vast body of workmen will be thrown out of emdismay in the district, as a vast body of workmen will be thrown out of employment at the most inclement season of the year.—The affairs of the Ayrshire Iron Company, it is said, will be less serious than was anticipated; as at present valuations the sum of 4l. per share would meet the deficiency, the company may, therefore, go on with hopes of better success hereafter. So rapidly have the wages of the miners fallen, that they are now paid only 2s. Ild. a day, whereas some time since they received 5s. a day.—At the anniversary of the Glasgow Master Ironfounders' Association, held the other day, it was stated by Mr. Neilson, that since the introduction of his hot-blast process, the manufacture of iron in Scotland had increased from 40,000 tons, which it was in 1828, to now mearly 500,000 tons annually. 1828, to now nearly 500,000 tons annually.

Shropshire Iron-Works.—The works in this county are extremely dull -the Old Park Works, of B. Botfield, Esq., have been standing during the last five weeks; and the Stirchley Works, belonging to the same gentleman, are at half work, in consequence of the stagnation of the trade, and the limited demand for iron. The colliers in these districts received notice on Saturday last for a reduction in their wages of 9d. per day.

THE WAR IN MEXICO.—A good deal of misapprehension appears to be entertained by a portion of the public press, respecting the cowardice of the Mexicans in the late contest. It has been very generally given out, that the Mexicans in the late contest. It has been very generally given out, that the Mexicans will not fight in the open field; but are only fit for a sort of guerilla war-fare—attacking their enemy at disadvantage, and only surprising parties when they find themselves on the safe side. Now, the following return of the losses of the two armies—in regular pitched battles, and in storming fortresses—evines that this opinion is erroneous; and that some hard fighting must have taken place, or human life could never have been sacrified, and prisoners taken, to such an extent. General Scott, in summing up his losses since the United States' army arrived in Mexico, gives a total of 2708—including 383 officers. The Mexicans, out of an army of 30,000 men, have lost more than 7000 officers and men, and 8730 have been taken prisoners—one-seventh of whom are officers, and among them 13 generals, of whom three have been presidents of the republic.

officers, and among them 13 generals, of whom three have occur presented the republic.

STAMPS ON BILLS OF EXCHANGE.—Mr. Wyld, M.P., has just procured a return (printed on Friday) of the amount of duties received in the several years between 1810 and 1846, both inclusive, for stamps on bills of exchange or promissory notes, and bank notes. The largest amount of duty was paid in the year 1818, when it amounted to 845,749., 15s., and the smallest in 1832, when it was 545,801. 3s. 1d. In the last six years (from 1811 to 1846 inclusive) the duties amounted to 660,1534. 17s., 589,394. 17s. 6d., 564,443. 9s., 576,7294. 8s. 4d., 558,5864. 8s. 9d., and in 1846, 571,8424. 10s. 1d.

THE RAILWAY ACCOUNTS BILL

THE RAILWAY ACCOUNTS BILL.

The bill presented by Lord Monteagie to the House of Lords on the 20th, is entitled "An Act to provide for the more affectual Audit of Railway Accounts," and the method by which his lordship proposes to accomplish this object, is the appointment, in cases where it may be demanded by a certain proportion of the shareholders, of an official auditor, to be chosen by the railway commissioners, whose duty it shall be to examine the whole of the discretors' books and balance-sheets, prepare a statement of his own of the company's transactions, and "report his view of the profits and foss which shall have arisen thereupon in the course of the year, half-year, or other period, to which such balance-sheet relates." The option being life with proprietors whether to avail themselves or not of this measure, its operation, in any part of Great Britain at least, is not likely to satisful habit, and a pretty strong conviction of the necessary, of attending to their own business—the men whom they entrust with the charge of it are chosen for quahties known to deserve confidence; and should this be forfeited, English proprietors will not be at any loss to find amongst their own number others, to take their place, to whose honesty and business-like qualities the seconans will be ashly trusted. The vigilance with which erects of which is already secured by the existing law, to be mentioned presently—has hithered been found quite safficient for their protection; and were a stricter inspection thought necessary, they would not be much inclined to call upon the State for the means of applying it. They would use their own ample powers, and help themselves, as Englishment are accustomed to do.

Which Lord Monteagle—without any stimulus, we apprehend, from the railway interest in this country—is good enough to offer to proprietors who may suspect that their business is unfailfulfully managed, and who have a deserged and help the servers of the main of the protection of the protection of the protection of the

pure), to examine and report on the details of a business of which they mins be absolutely ignorant.

It is no part of our care to inquire what can have caused Lord Monteagle's anxiety on this head; whether he may have been moved to it by representations from his native Ireland, fike those of the Fernanagh meeting; or whether his personal recollections of the evils of negligent account-keeping, of which the office he presides over furnished not long since a notorious instance, may have rendered him sensitive on the subject of an audit. The railway proprietors, for whose advantage this measure is professedly brought forward, will hardly give his lordship much thanks for his well-meant interference. They deem themselves quite able to look after their own concerns; they are not accustomed to allow their heads of offices to receive salaries for duties carelessly performed; and it has not occurred in any of their establishments to find that entries have been falsified, and gross speculations committed without detection, for years together, from the want of due care in the parties paid for controlling them. Whenever this shall have become general, and they feel themselves too ignorant or idle to remety the evil by a strictor inspection of their own affairs, they may be glad to avail themselves of Lord Monteagle's Act, but hardly until then.—Daily News.

LITERARY NOTICE.

Chambers' Information for the People. W. and R. Chambers, Edinburgh—Nos. I, to IV.

The reprint of this series of valuable publications—treating on scientific and useful subjects—we half with pleasure, as affording much useful information, in a popular style cach number, on the various subjects to which it is devoted, recommending itself to the attention of these who possess not the means, in a pecuniary point of view, or the time necessary of acquiring information from the several works published in a more expensive form, and entering into those minutiae which can only be understood and appreciated by the student and the man of science. The aim of the publishers, in reprinting the series is to afford to the "many" that information which, from its nature, has hitherto been confined to the "few," while we feel, that, in directing attention thereto, we are promoting the main object in view—that of extending knowledge. The first faur numbers, which will be followed by Mineralogy, Metals, and Metallurgy, and others of a similar popular nature, from which we shall from time to time make such extracts as may be not only of interest, but conduce to the circulation of the work in giving it publicity. Each number is perfect in Itself, and will be found to convey a fair outline of the surject on which it treats, and, in many instances, doubless, induce the render to scarch for more detailed information in other works. It will be sufficient for our purpose, on the present occasion, to glance at the number devoted to Geology, and other subordinato branches, will form matter for subsequent treatises—" Physical Geography," which perinis to the subject, being the substance of the article in the fourth number. In that under notice, we have several papers, or chapters, on the causes modifying the earth's crust, whether resolving themselves into those termed depreading and elevating—or, in other terms, whether mechanical, chemical, or vital—in their nature. This portion, like other learning the subject and mineralogis—that of th

and comprehensive form.

New Library of Useful Knowledge. Craddock and Co.—Nos. XIV. and XXVIII.: pp. 64.

This publication, of which the numbers under notice form a part of the series, is issued at a price which will render it attractive; and, each number being complete in itself, we doubt not but that it will become popular with the several classes to whom it is addressed, varying in its subjects from the Flower gardners' manual and English cookery, to the sciences of geology and mineralogy, taking in its course Australia, Newfoundland, and China; while the steam-engine, and physiology of health, with botany, and preserving, and pickling, are not lost sight of. It must not be understood that, from the variety of subjects treated upon, we would wish to convey any impression that the one, or other. or "One and All," are not good—inasmuch that, with a careful supervision in collecting the mater al, we are well convinced that publications of this kind, as elementary or introductory works, may be rendered not only instructive and amusing, but furnish much valuable information, in a condensed form. It is quite clear, however, that this care has not been manifested in the present instance; for, if we mistake not, we find the same words in works of ancient date, while it is manifestly clear, from the number on geology in Chambers's Information for the People, and briefly reviewed in our prosent Number, that either Messrs. Chambers have borrowed from the New Library of Useful Knowledge, or vice verial. We will extract from Chambers's, one or two paragraphs at page 18, and contrast them with others which will be found at page 13, in the little work under review. Chambers says: —"A segrating forces are chiefly owing to water, so those of an elevating character are chiefly owing to fire. They are, therefore, sometimes comprehended under the term inprova agency.—The manifestations of igneous agency at present observable, may be considered under three heads—namely, volcanoes, earthquakes, and gradually-elevality forces. Th

where he is sadly at fault. A reference to chap. 2, pp. 11 to 16, will, we think, the practical miner and geologist, as being quito an original description of folles, puries, heaves, &c. We trust that the works on botany and forculture, as also

Proceedings of Public Companies.

MONDAY Treleigh Consols Mining Company—offices, at One.
Cobre Mining Company—offices, at One.
TUESDAY Imperial Fire Office Company—offices, at One.
WIDMENSAY ... Royal Santiago Mining Company—offices, at One.
Wileal Curits Mining Company—diffices, at One.
Wileal Curits Mining Company—diffices, at One.
Wineal Curits Mining Company—diffices, at One.
Worthampton and Banbury Railway—for for Twelve.
Northampton and Banbury Railway—London Tavern.
[The meetings of Mining Companies are inserted among the Mining Intelligence.]

BIRMINGHAM AND OXFORD JUNCTION RAILWAY.

[The meetings of Mining Companies are inserted among the Mining Intelligence.]

BIRMINGHAM AND OXFORD JUNCTION RAILWAY.

An extraordinary meeting of the shareholders of this company, convened in consequence of a requisition presented to the chairman of the heart of directors by Mr. Mosley, and other parties, holding 5000 shares, was held at Dec's Royal Hotel, Birmingham, on Tussaky least, the 28th Dec., for the purpose of considering and determining what course should be adopted with respect to an action brought for a breach of contract by Mesara. Peto and Easted, and also actions brought by the directors against shareholdiers for non-payment of calls; also to authorise the directors to proceed to Parliament for an Act giving powers to construct a deviation line from Leanington.

Mr. Mozley, who has hitherto led the van of the oppositionists to the directors' party, was absent; but his place was supplied by Mr. A. Payros, who opened the business Lystoting that is had been deemed advisable to defer proceeding in the greater part of the matters for which the meeting had been convened; such only would be considered as were imperative at that moment. The first resolution was—"That application to Parliament be made by this company, in pursuance of the notice inserted in the London Gravillane and Besle, for a bill to cance this company to make a deviation in the line of railway between Leasmington and Warvick, and to purchase the Stratford-on-Avon Canal, and this Mr. Alexander Dobie and Mesars. Thomas Colmore, and William John Beale be, and they are hereby, appointed solicitors for and on behalf of this company, to solicit such bill in Parliament, and to take all necessary steps for passing the same into an Act."—Mr. Hyrchisoso, of Lincoin, seconded this resolution; but the chairman refused to put it, on the ground the proper considering whether it was an Infringement of the Vice-Chancellors' injunction, which they would be if the bill had not in it the production which he had not last year.—Mr. Collance, of Birmingh

be instructed to pay and advance to the solicitors appointed at this meeting also such sums of money as shall be from time to time necessary in soliciting such bill in Parliament, and for defraying the expenses ordered to be borne by this company as above-mentioned."—The Charaman refusing to put this resolution also, it was put by Mr. Peyron, and carried almost unanimously.

The last resolution submitted by Mr. Peyton, and seconded by Mr. Beale, was:—"That this meeting be, and is hereby, adjourned until Friday, the 14th day of January next, at Dee's Royal Hotel, Birmingham, at half-past two o'clock in the afternoon, when the consideration of all, and singular the matters and things mentioned and referred to in the requisition under which this meeting is held will be resumed, if necessary."

Mr. BIRLER, of Liverpool, in the course of a long speech, animadverted in strong terms on the conduct of the directors and their solicitors. He insisted that they (the directors) were regardless altogether of the interests of the shareholders; that in making and pressing for the payment of calls, they had shown how completely insensible they were to the state of the noney market, and to its influence upon this proprietary as well as others; that, in fact, nothing winatever has been done to militate evils, but everything to annoy and harass. That the solicitors, with great professions of kindly feeling, and diffidence, and shairfathess, had made hundreds of pounds by the service of writs which had no effect, except to produce a picking for themselves, as were evidenced by the fact that upwards of 500 writs had been served, and upon each there were costs amounting to something like four guineas. Such had been their anxiety to resort to legal proceedings, that whilst they held one hand for a 5t. note, in another they held a writ, and threatened a forfsiture of shares if that call was not paid within 21 days, eithough they knew they had not the power to enforce the threat. He advised that the solicitors should be immediately got

EDINBURGH, LEITH, AND GRANTON RAILWAY.

A special meeting of shareholders was held on Thesday, at Ediburgh, for the purpose of considering a proposition relative to the terms of amalgamation, authorised with the Edinburgh and Northern Company. It appeared, that a difference had arisen between the two boards, in reference to the interpretation to be put on the terms of the agreement metered into. By the agreement, the stock of the Edinburgh and Granton Company was to be taken at 310,0000, and amalgamated at par with the Edinburgh and Northern Company, the amalgamation to take place when both lines were completed, and in full operation. The sum named was, in 1846, estimated to be the limit of the expenditure required to finish the Edinburgh and Granton line.

The estimate, however, proved to be too low, owing to a rise in the price of labour and materials, amounting to 20,0000, and the increased expense of the tunnel, together with an additional outhy to meet the views of the Edinburgh and Northern Company, which it was alleged would not have occurred had the Granton remained an independent company. Under these circumstances, 380,0000, would be required, or 70,0000, beyond

Under these circumstar s. 380,000/, would be required, or 70,000/ h

company. Under these chromatanees, 380,000, would be required, or 70,000. beyond the original estimate agreed to. The matter in dispute was, whether the 70,000, should be paid by the united companies, or provided solely by the Edinburgh and Granton Company, on the assumption that the latter were bound to deliver their line in a complete state, in consideration of receiving 310,000, stock in the amalgamated company.

After much correspondence on the subject between the directors of both companies, it was agreed, subject to the sanction of the shareholders, to amicably refer the case to the Bight Hon. J. A. Stuart Wortley; but, in case of his refusal, to Sir F. Thesiger, and abide by his decision on all questions arising out of the agreement between the two companies, dated in March and October, 1846. It was also untually agreed that the cost of the Granton line should be fixed at 340,000, the extra property of the latter company not to be included in that sum, but to be applied towards the expenditure beyond it.—A conversation ensued, in which it was stated that the Edinburgh and Granton Company do not derive a profit from working their line at present; but that, if it had fair play, the traffic might be considerably increased.—A resolution was passed authorising the directors to enter into the proposed agreement with the Edinburgh and Northern Cumpany, and to apply to Parliament, if necessary, to enable them to carry it into effect.—The meeting then separated.

Swansea Dock Company.—The adjourned meeting of the shareholders of

SWANSEA DOCK COMPANY.—The adjourned meeting of the shareholders of this company was held yesterday, the 23d inst., at the Townhall, at two o'clock in the Afterneon.—Capt. Mongan, the chairman of the company, occupied the chair.—The adjournment of the former meeting having been read by the SECHERARY, the CHARMAN stated that there would be no business transacted on that occasion, further than again to adjourn the meeting to that day three weeks, the 13th of January. The report of the committee of shareholders was then read, stating that no salisfactory arrangement had as yet been come to. A formal resolution having been passed adjourning the meeting according to the recommendation of the chairman, the meeting then separated.—Cambrian.

Proposed Railway in Trinidad.—The last Trinidad papers contain an interesting account of a meeting held on the 12th Nov., for the purpose of forming a new company for the construction of a railway in that island, at which Lord Harris, the governor of the colony, took the chair. The proposed capital is 300,000. for the 91 miles of line contemplated, but, in the first instance, it was suggested that the distance from Port of Spain to Arima (12 miles) should be completed, the cost of which would be 100,000. The guarantee of 5 per cent., the grant of lands, and other conditions, which were conceded to the recently dissolved company, are to be conferred upon the new one, and a great effort is agreed to be made to render it a matter of domestic interest. With this view it is proposed that, although the general shares shall be for 10t. each, 20,000 shares shall be issued at 1t. each, in order to induce the labouring classes, especially those who would be employed upon the works, to enter as partners into the project. In a long speech the engineer expressed his belief that the shares would ultimately be worth 1200 per cent. of their original cost, not from the profits of traffic, but from the sums that might be realised from the tumber growing upon the lands to be conceded to the comoriginal cost, not from the profits of traffic, but from the sums that might be realised from the timber growing upon the lands to be conceded to the company by the Crown; and, although this estimate gave rise to some amusement and ridicule, it was generally admitted that the prospects of opening up an active timber trade were of a most satisfactory description. With regard to the prospect of traffic profits, it was admitted by more than one speaker that, at a time when the planters are engaged in "the problem of continuing to make sugar at a cost of \$4 per cwt. which would only sell for \$3." it was hardly safe to entertain any very sanguine expectation. On the whole, however, an advantageous statement was clearly made out, and it seemed evident that the colonists themselves were ready to enter into the undertaking to the limit of their means. It was stated by the chairman, however, that reliance was still placed on the raising the greater portion of the capital in England.

DCOCK'S PATENT SPRAY PUMP.-This important DCOCK'S FATENT STRAIT THAT: A BROWN AND THE STRAIT THAT IN THE STRAIT IN THE STRAIT THAT THE STRAIT THAT THE

DATENT GALVANISED IRON AND WIRE ROPE WORKS,

ANDREW SMITH begs to inform the Mining, Railway, and Shipping interests, that he
has obtained a PATENT for an IMPIGVED METHOD of GALVANISING HEON, producing a much superior article at a considerable saving in cost—the improved process for
galvanising wire rope, adding only £10 per ton instead of £20, under the ordinary processes. The rope is extensively used in damp situations, for inlining and railway jury
poses, and for ships' standing rigging.

galvanising wire rope, adding only £10 per ton instead of £20, under the ordinary processes. The rope is extensively used in damp situations, for mining and railway purposes, and for ships' standing rigging.

TO ENGINEERS, RAILWAY, AND STEAM-BOAT COMPANIES, AND THE PROPRIETORS OF STEAM-ENGINES GENERALLY.

BENJAMIN GOODFELLOW,

THE PATENTEE OF THE COMPOUND ACTING AND SELF-ADJUSTING METALLIC PISTONS,

Desires to solicit the attention of the above parties to the said improvement; the peculiar advantages of which are, that they are particularly sensitive to any variation in the size of the cylinder, and will accommodate themselves to an oval, with a constant tendency to wear it cylindrical. The Junk-ring, or cover, is brought down upon the bed of the piston securely and truly, leaving the packing perfectly at liberty between the plates—against which the spring presses the outside rings or casing, as well as to the surface of the cylinder, thereby preventing the escape of steam either past or into the piston—at the same time the friction being the least possible.

As there are many, no doubt, still unacquainted with the existence of his pistons, and the same being liable to be imposed upon by parties making and vending in imitation (but with slight variation in form), he takes this opportunity of cautioning them—it being susceptible of many modifications, the simplest and most efficient of which may be seen is the subject of his patent.

The patentee has twice established his exclusive right to the principle of construction of his improved motallic pistons—once in an action "Goodfellow v. Barker," tried on the lith February, 1846, in the Court of Exchequer, before the Chief Baron and a special jury, when a verdict was found for the plaintiff. In this case the defendant's infringement was a helical or spiral formed spring—thus: around which was placed a metallic casing, to which it gave a compound, or vertical, and lateral pressure, and any account of the clearaces of his established right to the said improvements, t

WHEAL TRESCOLL (OR "THE MODEL MINE")

TO BE CONDUCTED ON THE "COST. BOOK" SYSTEM.
Divided into 550 shares Deposit £1 per share.
OFFICE—5, WHITEFRIARS-STREET, FLEET-STREET, LONDON.

OFFICE—5, WHITEFRIAIGS-STREET, FLEET-STREET, LONDON.

THERE TRUSTEES—TWEEVE COMMITTEREMEN.

Solicitor—Samuel B. Sargent, Esq., Callington, Cornwall.

Purser and Responsible Manager—Charles Samuel Richardson.

Bankers—Messrs.——, Bodmin, Cornwall.

WHEAL TRESCOLL is a TIN MINE, and has been selected, from a number of others as one presenting the fewest obstacles in the way of carrying out the novel experiment oplacing mining on an entire new and reform principle—the leading features of which will be found to consist in the economy of capital required to put the mine in an efficient working state.

placing mining on an entire new and reform principle—the leading features of which will be found to consist in the economy of capital required to put the mine in an efficient working state.

To conduct the various operations in such a manner, that time, so vital to all undertakings of this kind, may not be neglected—that the largest quantity, and the best quality, of metal may be produced from the smallest quantity of work, and that teasts shall entirely be prevented—that the underground workings be so arranged, that returns be made as the several sections are progressing—that the mine be conducted on the most improved and scientify principles of modern mining. That in all the company's affairs there shall no ambiguity, misrepresentation, or mystery, be employed, which is now found so prejudical to the true interests of mining adventurers, and so baneful in its effects on this portion of our national industry; and that it shall, if a possibility does exist, be put upon the same footing as any other branch of civil engineering.

The mine is situate in the parish of Luxillan, adjoining Roach, in Cornwall, and in the inmediate vicinity of the celebrated Rocks and Beam Mines—well known as two of the richest mines in the county. The sett is an extensive one, and contains six large lodes and 11 branches, running nearly east and west; two adits have been driven, one at each end of the sett, from which has been taken the finest specimens of tin ever seen, one stone of which weighed 120 lbs., nearly solid, perfectly free from Woolfram, or any other deleterious matter. This stone, although many samples has been broken from it, now weight of which weighed 120 lbs., nearly solid, perfectly free from Woolfram, or any other deleterious matter. This stone, although many samples has been broken from it, now weight of which will produce 400 lbs. of it no the 100 sacks of work, which exceeds the general average of tin mines. The samples taken collectively, stand equalled by few, and excelled by none, of the present day.

The lea

commencement. The new adit will be 137 fms. in decomposed granite, the assumed cost of which does not xeeed ± 1 per fathom, timbering included; all the works will be done by contract, and ubmitted to public competition—the lowest tender to be accepted, provided the securies are approved of by the agents and the manager. As soon as each lode is cut, and exceed 21 per tantom, inhering includent, and the works wint to comb by contact, and submitted to public competition—the lowest tender to be accepted, provided the securities are approved of by the agents and the manager. As soon as each lode is cut, and convenience will permit, tributers will be set on to raise tin on the backs—an offer has already been made at 7s. 6d. in the pound; by this means, it is supposed nearly enough in will be produced to pay the entire first working costs, when the whole 17 lodes and branches have been fully developed, which will take about six weeks, the proper locality for the engine will be decided on: about £5 per share is considered sufficient to put the mine down 30 fathoms, and which will be called in during the first year. It would be perfectly about for the proprietors to hole out any visionary prospects of what the mine will, or may, pay, as the whole concern is an experiment; but any person feeling a desire to form his own estimate of its intrinsic value, may very easily do so, by taking the coach from St. Austell, or Bodmin; and, with the assistance of a pick, go into the present adit, and raise as much ore as he may please, he will find every facility to convince himself, as, from the stream-works adjoining, men may be found who will braise down the stone, and return him the tin in his presence.

For the purpose of rendering this undertaking one of a bona fide, as well as one of an economic character, the proprietors undertake to guarantee that the whole expenses of the company's management shall not exceed 12 guineas per month, until a dividend is declared, which is to pay the salary of a purser, two agents on the mine, a visiting clerk, who is to keep and disburse all the accounts, and the rent of a furnished office and committee-room in London.

Any person wishing to form one of the committee of management, may give notice of the same in his application for shares, which are to be made to Samuel Benny Sargent, Esq., Callington; W. L. Oliver, Coggestall, Essex; John W

TIN VALE MINING COMPANY, ST. NEOT.

COUNTY CORNWALL.

1000 parts, or shares, of £2 per part, or share.

NOW AT WORK ON THE "COST-BOOK" PRINCIPLE.

CHARMAN.

ROBERT OWEN ALAND, Esq., Cambridge-terrace, Hyde-park.

JOHN POSFORD OSBORNE, Esq., Ardicigh Park, Colchester.
JOSEPH CARRINGTON RIDGWAY, Esq., Rechampton Lodge, Rechampton
BENJAMIN FORRESTER SCOTT, Esq., Northampton Park, Ball's Pond.
BARTHOLOMEW DAWES, Esq., Soho-square.
Captain THOMAS ROSE, Waterloo, Northampton.
WILLIAM W. MANSELL, Esq., Purser, Dorchester-place, Blandford-square.

William W. Mansell, Esq., Purser, Dorchester-place, Blandford-square.

Caplain of the Mine .- Mr. John Floyd, Harrowbridge. Solicitor—John Butler, Esq., 134, Tooley-street, Southwark.

Bankers—Messrs. Ransom and Co., London.

PROSPECTUS.

PROSPECTUS.

This mine sett is situate at Harrowbridge, in the parish of St. Neot, in the county of Cornwall, on the banks of the Drains River, and extends over about 200 acres of mineral and. It is held on lease for 21 years, from the lords of the manor, at a reyalty, or due, of 1-15th, and totally free from sleeping or dead rent. Five tin lodes, underlaying south, have already been opened. A shaft has been sunk bout 10 fathoms, and two adits driven—one about 80 and another 20 fathoms. The first ode in the chief adit, marked A on the map, has already been opened 10 fathoms to the east, and about 20 fathoms to the west, on the course of the lode, from which ore is precured, and a considerable quantity is now on the bank, ready for stamping.

The second adit, marked B on the map, has been driven 20 fathoms on the course of a ode, of most promising appearance.

Five pairs of stamps ais in course of construction, as well as all necessary machinery or earrying on the works efficiently; and Captain Floyd asserts that returns will be unadebefore Christmas.

Five pairs of stamps as: in course of construction, as well as all necessary machinery for earrying on the works efficiently; and Captain Floyd asserts that returns will be made before Christmas.

The ore is of the best description, being free from compound.

The tin streams are considerable: they have been saccured also for the company, at a royalty, or due, of 1-12th, and arrangements have been made for working them on tribute. The freehold of land, sufficient for the erection of workmen's cottages, has likewise been obtained, and the quantity of grantice which abounds in the locality renders building cheen. The operations of the company are carried on under the "Cost-book" Principle, which exempts the company from the provisions of the Act for the Registration of Joint-Stock Companies (7 and 8 Vic., cap. 110), the 63d section of which enacts—

"Provided always, and be it enacted, that nothing in this Act contained shall extend, or be construed to extend, to any partnership formed for the working of mines, minerals, and quarries, of what nature soever, on the principle commonly called the Cost-book Principle, shareholders have the right of determining their responsibility, by giving notice of their intention to relinquish their shares, and on forfeiture of all previous payments. The 15th clause states—

"That any adventurer, or shareholder, may determine his or her responsibility or lability to the affairs of this mine, upon his or her giving notice, in writing, to the purser of the company for the time being, of his or her desire of retiring from the company; and, also, upon depositing with the said purser the share or shares."

The directors, after considerable negociation, have succeeded in effecting the following arrangement, which they consider highly advantageous to the company—namely; That the present lessees, in consideration of the transfer of the lease to the company; the themselment on payment of the sunsfer of the lease to the company. The themselment in course of erection, and for the works hithe

September, 1848.

Applications for shares to be made to the purser, W. W. Mansell, Esq., at the tempor offices of the company, 17, Dorchester-place, Blandford-square; John Butler, Esq., settor to the company, 184, Tooley-street, Southwart; James Lane, Esq., mining sha broker, 75, Old Broad-street, city; and Messrs. Oliver and Co., stock and share broke Coggeshall, Essex—where prospectuses and every information may be obtained; also the office of the Mining Journal.

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